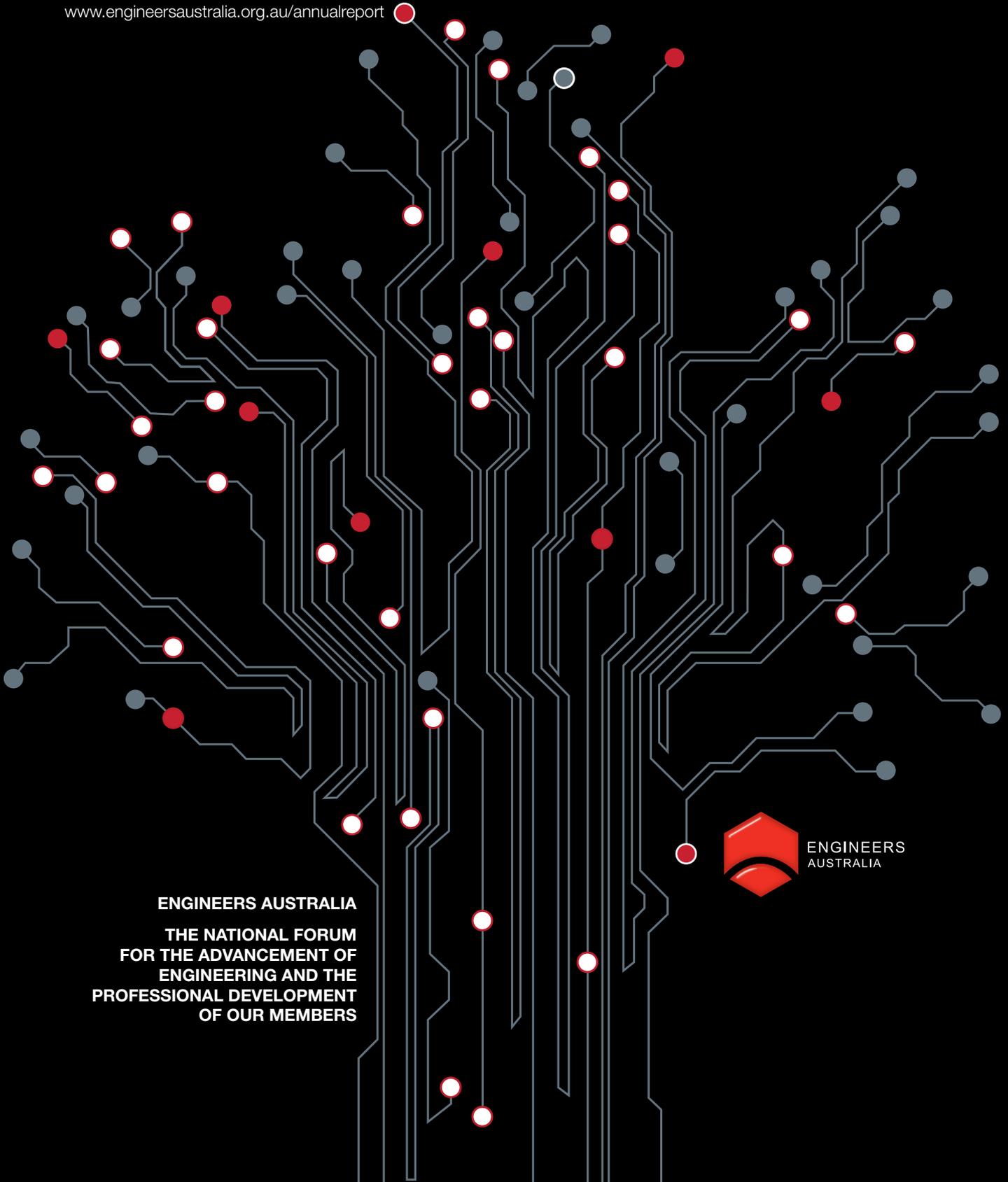


ENGINEERS AUSTRALIA
ANNUAL REPORT
2010-2011

www.engineersaustralia.org.au/annualreport



ENGINEERS AUSTRALIA
THE NATIONAL FORUM
FOR THE ADVANCEMENT OF
ENGINEERING AND THE
PROFESSIONAL DEVELOPMENT
OF OUR MEMBERS



**ENGINEERS
AUSTRALIA**

COMMUNICATION OBJECTIVES

This annual report of Engineers Australia for financial year 2010-2011 is presented by the Council for the business of the Annual General Meeting 2011, in accordance with By-law 20.2 of the 2011 Royal Charter and By-laws.

The most recent previous report was produced for the business of the AGM 2010.

Our General Reporting Principles

1. Our reports should inform members of measurable progress towards our agreed annual and longer-term goals.
2. We should ensure transparency in reporting, informed by contemporary approaches to corporate responsibility reporting.
3. We should give due emphasis to the key organs of Engineers Australia – the Divisions, Colleges and other interest groups – so that our members are able to relate directly to what is being reported.
4. We should use the one national annual report process to encompass our principal reporting obligations flowing from our Charter and By-laws – for Council, Congress, Divisions, Colleges and Technical Societies.
5. In addition to our full report being available online, brief highlights should be provided in printed form to all of our financial members, rather than full printed reports, in a form intended to be of interest to them.



ISSN 1835-2537

Engineers Australia Annual Report 2010-2011

(incorporating the audited Group Consolidated Concise Financial Report for the year ended 30 June 2011)

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Printed copies of this report will be made available for our national and Divisional senior office bearers.

An online version is available at www.engineersaustralia.org.au/annualreport

This report and the full Group Consolidated Financial Report can be accessed in PDF format at the website also.

Highlights from this report in a four-page printed summary will be distributed to members with the November 2011 edition of the Engineers Australia magazine.

Comment on any aspect of this year's Annual Report is welcome.

Contact: Manager Strategic Planning and Corporate Performance at Engineers Australia National Office 02 6270 6553

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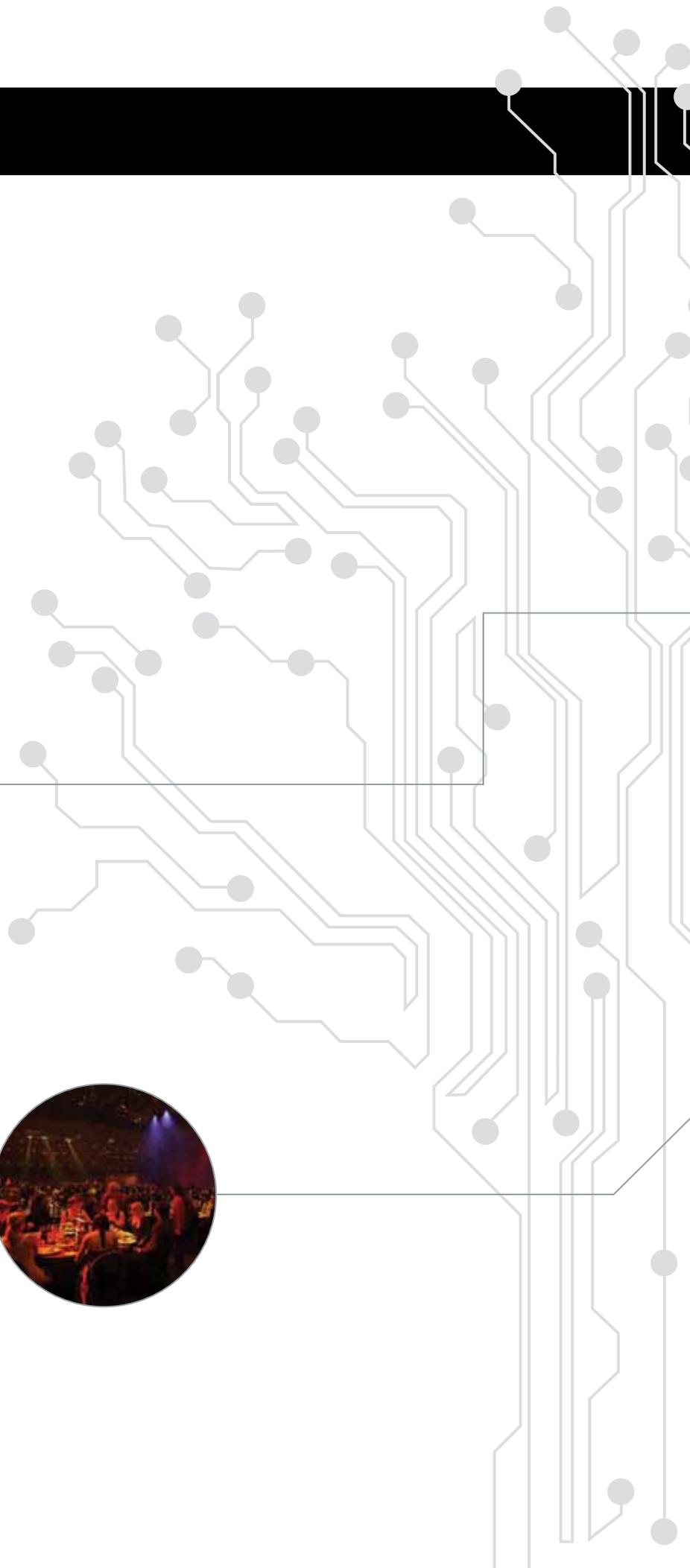
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NATIONAL WINNER: ONLINE REPORTING AWARD
NOT-FOR-PROFIT SECTOR - 2009-2010 ANNUAL REPORT



HIGHLIGHTS OF THE YEAR 2010 - 2011



OUR 2010 - 2011 REPORT CARD TO MEMBERS

PROMOTING UNDERSTANDING WITH OUR COMMUNITIES



- ▶ Australian Engineering Week in August 2010 was a resounding success, with many events marked by record attendances and with excellent media coverage. A range of public forums were conducted in Divisions, covering topics as diverse as transport, sea level rise, road safety and the general impact of technology on society.

EDUCATING FOR SUSTAINABLE ENGINEERING PRACTICE



- ▶ Following a substantial consultation process, new Stage 1 Competency Standards for engineering undergraduate courses were adopted by Council in February 2011. Knowledge, skill and ability to apply sustainable engineering practice have been significantly strengthened in the standards.
- ▶ With funding support from the Commonwealth government, coastal and ocean engineering guidelines and the flagship Australian Rainfall and Runoff publication are being updated to accommodate climate change.

DEVELOPING AND DELIVERING OUR BODY OF KNOWLEDGE FOR THE BENEFIT OF MEMBERS



- ▶ In conjunction with other professional groups and our many sponsors, our volunteer members and office bearers delivered 19 major national and international conferences in Australia and New Zealand, attracting nearly 6,400 delegates.
- ▶ Nine eminent speakers toured across Australia giving presentations in metropolitan and regional centres to nearly 5,000 delegates.
- ▶ Over 1,100 technical events were conducted through our Divisions, in metropolitan and regional centres.

RECOGNISING THE QUALITY AND RELEVANCE OF THE PROFESSION IN AUSTRALIA

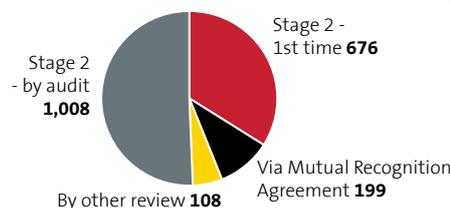


- ▶ In a first for Australia, the 5th International Civil Engineering Conference (CECAR5) was held in Sydney in August 2010, in conjunction with the Australasian Structural Engineering Conference (ASEC2010), attracting a truly international audience of over 550 delegates.
- ▶ Similarly, the 15th International Conference for Women Engineers and Scientists (ICWES15) was planned during 2010-11 and conducted in Adelaide in July 2011, with over 500 attendees from 30 countries.

MEMBERS BEING CHARTERED



- ▶ Nearly 2,000 members became current Chartered during 2010-11, with 1,008 of those the result of a successful competency audit. Our 5-year audit program is well on track.
- ▶ Our industry liaison efforts have been directed particularly at senior engineers in our Professional Development Program partner organisations.
- ▶ Interest levels among members wishing to become Chartered through the PDP continued to climb.



RESPONDING TO DIVERSE MEMBER INTERESTS



- ▶ The National Committee of our new Regional Special Interest Group began operating on 1 July 2010, to represent the interests of regional and remote members in the longer term, and to deliver the program for 2012 the *Year of the Regional Engineering Team*.
- ▶ Several of our Divisions reported successful programs as we take deliberate steps to engage and assist overseas qualified engineers.

A HIGH PROFILE CONTRIBUTION TO THE NATIONAL INFRASTRUCTURE DEBATE



- ▶ Our 2010 Infrastructure Report Card project for all States and Territories was completed successfully and on budget with the release of the Australian Infrastructure Report Card via a televised address by Chief Executive Peter Taylor from the National Press Club in Canberra in November 2010.

OUR MEMBERSHIP IS APPROACHING 100,000

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr last year
Graduates	14,521	14,549	14,357	14,222	14,130	-0.6%
Members	32,607	33,710	35,360	37,184	38,683	4.0%
Fellows (and others)	5,529	5,487	5,463	5,548	5,619	1.3%
Non-student members	52,657	53,746	55,180	56,954	58,432	2.6%
Student members	30,584	31,955	33,380	36,104	38,874	7.7%
Total - at 30 June	83,241	85,701	88,560	93,058	97,306	4.6%

WE HAVE SUSTAINED OUR SOUND FINANCIAL POSITION

	2006-07	2007-08	2008-09	2009-10	2010-11
Income	33.4	33.7	37.6	37.0	40.4
Expenses	31.1	33.5	36.9	39.4	41.0
Operating surplus/deficit (-)	2.3	0.1	0.7	-2.4	-0.6
Asset revaluation	3.6	3.3	-1.0	-0.5	0.5
Increase in members' funds	5.9	3.5	-0.3	-2.9	-0.1
Total Members' Funds	33.3	36.7	36.5	33.6	33.5

OUR 2010 - 2011 REPORT CARD TO MEMBERS

2010 YEAR OF ENGINEERING LEADERSHIP



- › We concluded our program for the year with the inaugural 6-day residential leadership program designed specifically for engineers. It will now become an annual event as part of the legacy of 2010.

2011 YEAR OF HUMANITARIAN ENGINEERING



- › Support to date for our promotion has been enormous. We developed a Reconciliation Action Plan for Engineers Australia, and we continue an ambitious schedule for the rest of the year which will culminate with our national conference in Melbourne at the end of November.

WORKING FOR A NATIONAL REGULATORY FRAMEWORK



- › In conjunction with our key partners on the National Engineering Registration Board, we have agreed a strategy toward nationally consistent registration over the next five years. The publication *Regulation of Engineers* was submitted to the Council of Australian Governments in April 2011 and distributed widely to Ministers in all States and Territories.

SUPPORTING THE MOBILITY OF OUR MEMBERS THROUGH INTERNATIONAL RECOGNITION AGREEMENTS



- › We signed mutual recognition agreements of Chartered members with the Institution of Engineering and Technology (Sep 2010) and the Chartered Institution of Building Services Engineers (Nov 2010).

RAISING THE PROFILE OF ENGINEERING



- › Last year's *Make it so* public awareness campaign was so successful it was selected as a finalist in the 2010 Australian Marketing Institute Awards. *Make it so* has provided the focal point for elements of our *2011 Year of Humanitarian Engineering* program.
- › The follow-on phases of *Make it so* – the Credentials and Career Preference campaigns – remain to be launched, pending substantive review of our structures and strategies around Chartered membership.

RECOGNISING ENGINEERING EXCELLENCE



- › High profile Engineering Excellence Awards events were held in six Divisions during 2010-2011 – and in the remaining three Divisions since then.
- › The national event in Canberra in November 2010 was sold out. Our patron the Governor-General of the Commonwealth of Australia, Her Excellency Ms Quentin Bryce AC attended, and is seen here with Young Professional Engineer of the Year Jillian Kilby and Professional Engineer of the Year Professor Karen Reynolds.



ENHANCING SERVICE DELIVERY FOR MEMBERS



- › Our Management Information Systems Renewal Program is intended to enhance service delivery for members and strengthen decision-making across Engineers Australia. Initial project milestones have been achieved with Council agreement to selections for a new customer relationship management system and a new website content management system. Implementation has now commenced.
- › Our hybrid recruitment service for members engteam.com.au was launched in May 2010. Despite good levels of interest and candidate registrations, placements have waned and thus anticipated revenues, and the service has been terminated.

UPDATED ROYAL CHARTER AND CODE OF ETHICS



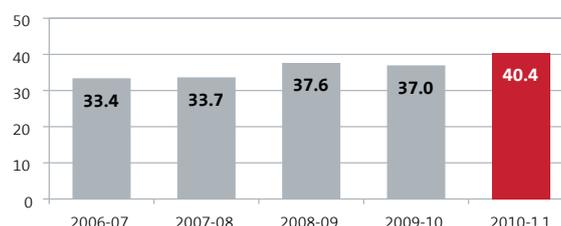
- › During October 2010, 33% of eligible members voted in a ballot to adopt a completely new Royal Charter and By-laws, with 63% in favour. On 26 September 2011, the new documents came into effect with the assent of the Governor-General.
- › On 28 July 2010, National Congress endorsed a new Code of Ethics for members which has been acclaimed internationally. An online ethics awareness program is planned for launch for members in early 2012.

AND WE HAVE A GOOD SPREAD OF INCOME

Main Sources of Income

	2006-07	2007-08	2008-09	2009-10	2010-11
Net membership subscriptions	15.9	15.2	16.6	17.1	19.0
Sponsorships, grants and commissions	2.7	2.6	2.7	2.7	2.2
Events and publications	8.5	8.9	11.0	9.5	11.0
Subsidiary companies	6.3	6.9	7.4	7.6	8.3
Total Income	33.4	33.7	37.6	37.0	40.4

Total Income (\$ million)



CURRENT FORWARD PLANS

Each year all groups within Engineers Australia prepare a new annual Operational Plan for the following financial year, taking into account progress against our key strategic objectives and future priorities. The agreed plan then provides the basis for the budget.

Council reviewed our key priorities in February 2011 when considering Engineers Australia's Operational Plan for 2011-12.

COUNCIL AGREED SPECIFIC PRIORITIES FOR 2011-12

1. To sustain our public awareness campaign for 2011 as the *Year of Humanitarian Engineering*, culminating with the national humanitarian engineering conference in Melbourne at the end of November.
2. To launch 2012 as the *Year of the Regional Engineering Team*, with a series of activities and events to support the efforts of our new Regional Special Interest Group National Committee.
3. To engage with our members, with governments and with the community on population, skills, infrastructure and sustainability issues, and consolidate our links with parliamentarians to keep them informed on engineering related public policy issues.
4. To adopt a new strategy in concert with key partner associations to convince governments and the community of the benefits of adopting nationally consistent legislation for regulation of the engineering profession.
5. To reposition Chartered engineers through the Credentials phase of our *Make it so* campaign, and find more cost-effective ways of managing the demand from practising engineers for assessment to become and remain Chartered.
6. To build on our *Make it so* campaign with the Career Preference phase aimed at young Australians and their influencers.
7. To deliver the first major milestones in the renewal of our processes and MIS technologies to support and enhance the delivery of services for our members.

COUNCIL AGREED WE MUST ALSO SUSTAIN FUNDAMENTAL OBJECTIVES

1. To offer new topics in our national conferences and build on the successes of our national seminar and eminent speaker series, for the benefit of our members' professional development.
2. To support the thousands of our volunteer members in our Divisions and overseas chapters who arrange professional development and networking events for the benefit of members and non-members alike.
3. To showcase the profession across the nation during Engineering Week, and recognize the world-class quality of Australian engineering through our Divisional and national Excellence Awards.
4. To maintain the status of our relationships with counterpart bodies across the globe, towards shared objectives for the advancement and standing of the profession and for enhanced mobility for our members who wish to practise internationally.
5. To provide more opportunities for engineers with qualifications gained overseas to enhance their own professional development.
6. To encourage current members to upgrade their level of membership, and to have more non-members decide to join Engineers Australia.



NATIONAL PRESIDENT'S REPORT



A transformational year

This has been a transformational year for Engineers Australia and it has been exciting to be part of it. The year has progressed against the backdrop of the new Royal Charter and By-laws. The process has been a distraction but the outcome will define our future. We have learned a lot through that process and will continue to analyse how the feedback should shape our future member engagement processes.

I began the year with ambition for change built on our strengths. I believe we have begun to review our connection with our members, testing ourselves against a need to deliver a sense of relevance, ownership, belonging and purpose to the membership. I am confident this journey will continue.

If success is measured by member engagement, the **Year of Humanitarian Engineering** has been resoundingly successful. My clear sense is that members have connected with the strategic objectives of the year. RedR and Engineers Without Borders have strengthened their connections to Engineers Australia, and other stakeholders such as universities, schools and government agencies have understood our objectives and used the year to progress common objectives. I do not believe the objectives of this year end this year. I hope there will be continuing and growing recognition and understanding by engineers of our role in the humanitarian space, and better awareness by the broader community of the essentiality of engineering to quality of life in all communities and humanity.

**THIS HAS BEEN A
TRANSFORMATIONAL
YEAR FOR ENGINEERS
AUSTRALIA AND IT
HAS BEEN EXCITING
TO BE PART OF IT**

Chartered is fundamental to our relevance and therefore our future. I know we have a long way to go towards my definition of a successful Chartered programme, but I also now know that the membership expects us to succeed and that the journey towards success has begun. There will be huge changes over the next few years. Firstly the process to achieve Chartered will be simplified by the launch of an online assessment process. This has come from recognition the process must not consume outcomes, and that the end game is to measure the point when an engineer has reached Chartered level, not to identify when a member can pass the process. Secondly we have begun to debate how to prove to ourselves, employers and other stakeholders the essentiality of a system that identifies a minimum level of expertise that will meet the community's expectations, and which will control the practitioner to commit to regular audits to assure currency through continuing professional development.

National registration of practicing engineers has long been an ambition of Engineers Australia and our members. Council reaffirmed that ambition and that registration must be comprehensive across all areas of practice. For the first time there is evidence that governments are listening. Registration is not however a panacea for Chartered. Rather the two are symbiotic.

Council, members and the staff have been enormously supportive of my ambitions for this year and my vision for our future. I am incredibly appreciative of that support. It has been a very demanding year, but also an enjoyable and fulfilling year. I recommend the experience to any member with ambition for our wonderful institution and our fantastic profession.

In conclusion I want to congratulate Acting Chief Executive Officer Rupert Grayston for his leadership and his personal achievements this year and thank him for his support. He has delivered an excellent year in challenging circumstances.

A handwritten signature in black ink, appearing to read 'Merv Lindsay'.

Merv Lindsay FIEAust CPEng

National President 2011

CHIEF EXECUTIVE'S REVIEW



An active year...

2010-11 was an active year with good outcomes against our operational plan and key priorities. It was also an eventful year in which Engineers Australia experienced some challenges, but continued to look to the future.

For the parent group, there was a surplus on ordinary operations for the year of \$727k and drawdown of reserves for expenses on planned major projects of \$1,613k, giving an overall deficit before revaluations of \$886k. This result was within the parameters planned and agreed with Council.

Membership numbers grew by 4.6% over the year to 97,306 at 30 June 2011. Non-student member numbers grew by 2.6% and student member numbers grew by 7.7%. Although membership growth was strong overall and ahead of target it was not consistent across all grades, for instance graduate membership fell slightly.

National Congress debated and amended a draft new Royal Charter and By-laws and put this to a membership ballot. The vote was decisively in favour of the proposed new documents however a few members raised questions over the electronic voting process. These matters were investigated by independent consultants and the result stands. On 26 September the Governor-General gave assent to our new 2011 Royal Charter and By-laws and they came into effect.

A new Code of Ethics was endorsed by National Congress following a consultative process and external expert guidance. This has been acclaimed internationally and will soon be supported by an online ethics awareness program.

A new architecture was established for Engineers Australia's management information systems and product licences were purchased for a customer relationship management system and a new website content management system. These will result in improved member communications and services.

with senior management changes...

There were a number of senior management changes in 2010-11. Sadly our CEO Peter Taylor was diagnosed with cancer in mid-2010. He underwent treatment and worked part-time from home for several months. Peter made a memorable appearance on national TV from the National Press Club in November, delivering an address on the National Infrastructure Report Card and fielding press gallery questions. Peter went on extended leave at the end of February pending retirement for health reasons.

In late February Council appointed me as Acting CEO while they undertook a recruitment process for a permanent appointment. This was ongoing at the time of writing and my permanent role of Deputy Chief Executive remains vacant. There were other senior changes with John Anderson being appointed as Director Engineering Practice, Leanne Hardwicke (former Director International and National Policy) as Director WA Division and Brent Jackson as Director International and National Policy.

and preparations for the future

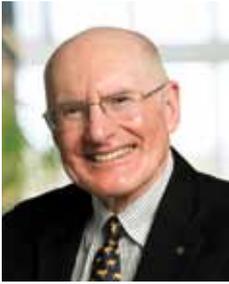
We developed a strategy with other key engineering bodies for unified registration systems for engineers in all states and territories to reduce red tape and provide a sound basis for future legislation concerning the rights to practise. Our Chartered processes and customer interface were reviewed and development commenced on a more user-friendly online application process and guidance, which will be launched during 2011-12. During the year Council and senior management reflected on member survey feedback and external benchmarking information and concluded that we need a renewed focus on member engagement and service. We commenced work on a change program and a future vision.

Members can expect to hear more in 2011-12, and can expect more opportunities to help inform our future directions.

Rupert Grayston FIEAust CPEng
Acting Chief Executive Officer

**IT WAS AN EVENTFUL
YEAR IN WHICH
ENGINEERS AUSTRALIA
EXPERIENCED SOME
CHALLENGES, BUT
CONTINUED TO LOOK
TO THE FUTURE**

INCOMING PRESIDENT'S STATEMENT



Finding engineering solutions to society's challenges

Engineering has made the world an amazing place to in which live safely, enjoy good health and longevity, and build economic wellbeing. I thus feel incredibly privileged to be Engineers Australia's incoming National President.

However, society is facing some pretty serious challenges with climate change, biodiversity loss, resource depletion, corporate governance failures and unchecked population growth in some of the most desperate countries on earth. These five issues together are severely testing our planet's capacity to support life, and maintain our current economic paradigm.

Engineering lies at the heart of, or is impacted by all of these issues. As the world's recognized problem solvers, we need to turn our attention to new ways of addressing, and finding solutions to these problems.

ENGINEERING LIES AT THE HEART OF, OR IS IMPACTED BY ALL OF THESE ISSUES. AS THE WORLD'S RECOGNIZED PROBLEM SOLVERS, WE NEED TO TURN OUR ATTENTION TO NEW WAYS OF ADDRESSING, AND FINDING SOLUTIONS TO THESE PROBLEMS

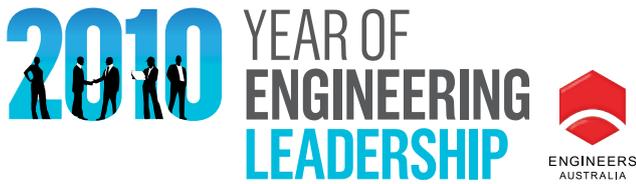
Business as Usual is simply not an option. We must respond, and I believe we can move forward as follows:

1. Our Engineering Team has the knowledge, diversity of skills, and an incredible opportunity to deliver us from what many scientists see as an inevitable crisis. We now need the will, the energy and a determined effort to show leadership and focus on the changes needed. We must build awareness, and ensure that all members of our team, and others, have the competencies needed to deliver sustainability outcomes from engineered work.
2. We must actively engage in public debate on these issues to rebuild community confidence in engineering.
3. But first, we must ensure that our organisation is capable and ready to assist and support the Engineering Team in addressing these challenges. Engineers Australia is in a strong position, but our market penetration could be much wider. Your Council needs to determine what the Engineering Team wants from us, clearly enunciate the membership value proposition, and provide leadership that encourages and welcomes new members.
4. We now have a modern Charter and By-laws, and equitable membership rights across the whole Engineering Team. However, there are continuing stresses that are going to require careful management. We must provide a "home" for, and give each of our vocational groups a sense of ownership within Engineers Australia. This will be addressed in a review of our College system that I am keenly driving.
5. Engineering education must look to, and prepare us for a different future. Competency assessment must ensure that practitioners understand, can address, and can deliver sustainability outcomes. Registration and practice areas must reflect society's concerns and protect the future as well as immediate life and safety issues, and must be integrated with a truly national regulatory environment.
6. We will also be addressing how we can better service our members working in remote locations. There is some really great engineering happening "out there" that should be made known to the wider public. On the other hand, our members "out there" often cannot benefit from the services that our city members so easily take for granted. In the coming **Year of the Regional Engineering Team** we will be addressing better delivery of services for our remote members.

We have already embarked on change that will enable these initiatives, and build relevance for members. I will also passionately pursue a better member service culture within Engineers Australia.

Adj Prof David Hood FIEAust CPEng FIPENZ FISEAM
National President-elect 2012

2010 YEAR OF ENGINEERING LEADERSHIP



An advance report on the *2010 Year of Engineering Leadership* activities was included in last year's Annual Report. The last major element of the year was the inaugural and very successful Senior Engineers Leadership Program held as a residential program in regional Victoria last October.

The key messages pursued throughout 2010 were:

- Leaders of the engineering team provide inspiring, sustainable and innovative solutions to society's challenges.
- The community identifies engineering as the desired vocation for those who are or want to become leaders of the future
- Engineers Australia is an organisation that fosters, supports and develops engineering leaders throughout all stages of their careers.
- Leaders of the engineering team value and are proud to be part of the practice of engineering.

Our Steering Committee for the program identified that a lasting legacy for the *Year of Engineering Leadership* would be achieved through communication, collaboration and listening, with support from CELM, Divisions, National Office and Council.

The following initiatives were identified as the five principal lasting legacies for Engineers Australia to take forward:

- Provide the continuing **forum** where members of the engineering team come together to contribute to the debate on issues that matter for leadership of the profession.
- Implement a **CEO's Dinner** where leading members of the profession come together to discuss issues affecting the profession and community.
- **Change the language** within Engineers Australia. Ensure the word 'leadership' is included when talking about members of the engineering team. Further, ensure the most prestigious awards within Engineers Australia include categories which require the demonstration of leadership.
- **Use Ambassadors** to share their leadership stories with the profession and the wider community.
- Through Engineering Education Australia, continue to offer the **Engineering Leadership Residential program each year.**

The national Board and the Division Chapters, which sustain the Centre for Engineering Leadership and Management as part of Engineers Australia's service to our members, are actively working to incorporate these lasting legacies into their annual programs.



Pictured left: Participants in the inaugural 2010 Engineering Leadership Residential program.

MAKE IT SO and 2011 - THE YEAR OF HUMANITARIAN ENGINEERING

MAKE IT SO.

Make it so. With these three words, we are showing Australians what engineers are capable of.

And it is only fitting that in the 'Year of Humanitarian Engineering', young engineers are inspired to develop the idea behind the winning entry of Make it so.

It began as a huge public awareness campaign in 2008, was the focus for a highly successful competition engaging the wider community in 2009, and throughout 2010 focused on demonstrating the enormous contribution engineering makes to the community using the **Year of Humanitarian Engineering** as a means to engage. The development of the **Make it so** website has led this campaign and has become a major platform for Engineers Australia to promote and celebrate engineering in all its forms.

Significantly we have seen strong support and involvement from universities in Australia linking their research programs into ideas generated via the **Make it so** competition. For example students have focused on the selected idea around creating energy from waste in developing countries. This year alone there will be around 15 different groups in Australia looking at projects based in Cambodia, Laos, India and Nepal.

During the campaign, Peter Taylor said: "**Make it so** is about raising community awareness about the contribution engineering makes to our daily lives, national economy and future well-being." He said the campaign had helped people see beyond the stereotypical "roads and bridges" role of engineers.

With so many university research projects currently underway in Australia that link local engineering talent to real-world projects in developing countries, the general public doesn't have to look too far to see that engineering is as diverse as the communities it serves.

Media interest has been strong and will require an ongoing commitment. In the 6 months to June 2011 Engineers Australia secured 131 pieces of media coverage reaching an estimated 9.5 million readers.



Pictured left: Spirit of Australia Qantas Magazine - article by Sally Dominguez - August 2011.

Pictured below: Terracotta arsenic filters designed by Resource Development International (RDI) and Engineers Without Borders (EWB). Clean well water is the intended result.



2011 - THE YEAR OF HUMANITARIAN ENGINEERING

→ 2011 year of humanitarian engineering

Engineers Australia designated 2011 as the **Year of Humanitarian Engineering** – a year in which Engineers Australia recognised the role of engineering in improving quality of life both here and overseas in not only disaster and recovery relief but on the broader contributions engineering make across many spheres of life. The goal – to promote the significance and importance of humanitarian engineering to both the engineering profession and the wider community so that humanitarian engineering receives the necessary support in Australia and abroad.

The **Year of Humanitarian Engineering** commenced with successful launch events around the country and was largely supported by the sponsorship of AusAID and SKM who participated as partners for the year's activities. Engineers Australia has focused on the delivery of a range of technical workshops and events on the significance of humanitarian engineering. There has been enormous support and enthusiasm to date and by the end of the reporting period dozens of events, partners and opportunities for engagement had been uncovered. With the support and commitment of Engineers Without Borders and RedR, Engineers Australia has set an ambitious schedule of activities planned to take place in the lead up to a national conference scheduled for late 2011.

These events have included the launch of an interactive website and portal for ongoing discussion, the staging of a Humanitarian Engineering Summit involving the Australian of the Year, Simon McKeon and the development of the Engineers Australia Reconciliation Action Plan. (Pictured left)

The **Year of Humanitarian Engineering** Steering Committee, chaired by National President Merv Lindsay has also focused on the broader issues of continued involvement and legacy beyond 2011. Considerable work is being undertaken on the issues of pro-bono engineering and equity issues for those deployed or involved in humanitarian activities. We are taking a role in the international dialogue around humanitarian engineering at forums that have included the World Federation of Engineering Organisations (WFEO) as well as ASEAN events and the signing of a mutual recognition agreement with the Engineering For Change program supported by a host of international engineering organisations with membership exceeding 500,000.

Engineers Australia was also pleased to receive support from the United Nations Under Secretary General for Humanitarian Development Dame Valerie Amos via video message earlier in the year.

Pictured left: Robert Hughes, a water and sanitation engineer from Engineers Without Borders (EWB) working on his humanitarian engineering project in Cambodia - to create sanitation options for residents of floating villages on Tonle Sap Lake in Cambodia.



FROM OUR DIVISION PRESIDENTS



CANBERRA DIVISION

Jennifer Murray

President

Our volunteers and staff are the backbone of Canberra Division, and coupled with member participation it makes it all worthwhile. Underpinning many of our activities are our sponsors who support the Division. I'd like to thank all for their help, support and involvement throughout the year.

We delivered a comprehensive CPD program for our members and received a very clear message from them – if the topic appeals we will attend – and we've seen significant growth in numbers as a result. The **Year of Humanitarian Engineering** theme has flowed through our activities. We engaged with the ACT Government and other professional associations on a number of issues, particularly the Quality of Building forums.

Our 2010 Australian Engineering Week program was designed to appeal to the community in general. Once again, our popular Engineering Games, held at Questacon, provided an evening of fun for over 300 participants, demonstrating the ingenuity of our school students.

Preparations for our Engineering Excellence Awards in September 2011 were well in hand, with 18 initial registrations.



NEWCASTLE DIVISION

Paul Reynolds

President

This year has been active and rewarding for me as I complete my second term in office. 2011 as the **Year of Humanitarian Engineering** has been promoted throughout the Division at various events. This has been the theme behind our successful CELM CEO Speaker series with a number of presentations based on humanitarian work.

Our Engineering Excellence Awards were again the highlight of the year attracting a record number of diverse projects with the Division winner going on to win at the National Level. We were also proud that in 2010 one member of the Division was presented Engineers Australia's most prestigious Peter Nicol Russell Memorial Medal, and another member was designated an Honorary Fellow.

A major focus for the Division will be to continue working with our Education Partners towards developing a more integrated educational system to assist educating and engaging students in the field of engineering for the region's future growth.



NORTHERN DIVISION

Len Chappell

President

The Northern Division has embraced the **Year of Humanitarian Engineering** as humanitarian issues loom large in the Territory, with our high indigenous population, our vast regions and our links with South East Asia. The humanitarian theme in our events has certainly opened a lot of eyes to the plight of many people and to the work many of our engineering team members are undertaking towards better living conditions and lifestyles for them.

The eminent speaker series has been very well received, along with our other CPD events. We still face problems getting meaningful CPD events into our regions and our divisional staff work closely with our regional representatives to try to overcome this. Having a national assessor in our Division for the past two years has boosted the number of our members becoming Chartered.

Our premier Gala Dinner and the Engineering Excellence Awards were again highlights, with excellent attendance at both. They seem to get bigger and better each year.

We retain good working relationships with government, with members on both sides of Parliament, and with senior public servants, many of whom attend our major functions and participate in our events.

Lastly, I would like to thank our sponsors, our management committee members and our other volunteers without whom we could not function. I also thank our divisional office staff who work extremely hard to keep the Northern Division running smoothly.

FROM OUR DIVISION PRESIDENTS



QUEENSLAND DIVISION

Dennis Wogan

President

Queensland has faced many challenges this year with the impact of the floods and cyclone felt across the State.

All engineers should be proud of how the engineering team stepped forward with offers of assistance to help our communities recover. These disasters highlighted the importance of the **Year of Humanitarian Engineering** and reinforced that there is much work to do in our own backyard, as well as overseas.

Notable achievements for 2010-11 included the release of the 2010 Queensland Infrastructure Report Card, successful establishment of the Overseas Qualified Engineers Support Group, breaking through the 20,000 membership barrier for the first time, high profile coverage of Australian Engineering Week through astronaut Dr Andy Thomas, a threefold increase in the number of Chartered applications, rapid membership growth, and ongoing support of our schools programs.

I would like to recognise the significant work undertaken by all Engineers Australia office bearers who devote their time and efforts for the betterment of the engineering team.



SOUTH AUSTRALIA DIVISION

Dr David Cruickshanks-Boyd

President

This year has been an exceptionally busy one for the South Australia Division. It was the first full year in the new location and there was a continued increase in attendance numbers and events being held at the premises.

As part of the **Year of Humanitarian Engineering** we hosted a Reconciliation Action Plan (RAP) workshop, with a cross-section of local industry, and developed themes that were fed back to the Engineers Australia RAP Committee. The guest speaker at the 2011 Sir Eric Neal Address, Dr Lynn Arnold AO, continued the humanitarian engineering theme with his inspiring presentation 'Slumdog Engineer', encouraging engineers to embrace humanitarian work.

We increased our engagement with students by participating in Science Alive! at the Wayville Showgrounds. The event attracted over 40,000 attendees over three days.



SYDNEY DIVISION

Maryam Khajeh

President

Sydney Division has had significant success in the year to date for the **Year of Humanitarian Engineering**, with all major groups (including YEAS, CELM, and WIE) taking the year on board and organising and running events accordingly. To date, we have had 26 events across the Division.

Our Engineering Week activities last August were very successful, with many events attracting public attention. These included the launch of the week which was held at Manly Beach and the public forum discussing "Technology – problem or solution?". The Division was fortunate to have two separate lift-outs in the Sydney Morning Herald, highlighting the work of engineers.

Division committee has also been tackling the difficult questions of media and membership, with sub-committees being formed to further look into these issues. Sydney Division continues to grow in strength and looks forward to many more successful years ahead.

FROM OUR DIVISION PRESIDENTS



TASMANIA DIVISION

Greg Walters

President

2010-11 was a successful year for Tasmania Division. Our major focus in the second half of 2010 was raising the profile of road safety in Tasmania with a major Road Safety Forum held in August. Our Science and Engineering Challenge again achieved a high level of engagement and enthusiasm from High Schools and our annual 'Engineering Initiative' with Year 10 students again attracted more applicants than spaces available. This program provided students with group workshops at the University of Tasmania and other key engineering organizations, followed by a work placement under the supervision of an engineering mentor.

In 2011 a major theme was raising the issue of reconciliation and awareness of the importance of Reconciliation Action Plans (RAP).

Significantly, we launched our very successful Parliamentary Support Program. 13 State and Federal Parliamentarians – nearly 25% of eligible members – are now involved. They are paired with two senior engineers to act as points of contact with the engineering profession.

We achieved a much higher profile for Engineers Australia with the public, the profession and our kindred organizations through greater coverage in the media and engagement with a wider audience through our technical program. Our biennial Engineering Excellence Awards also attracted high entry numbers and we had a strong field of entrants competing for our individual awards.



VICTORIA DIVISION

Paul Collier

President

2011 commenced with a planning day for Division Committee members and representatives of our 11 regional groups, at which we outlined the agenda for the year. One key objective has been to continue our policy of active engagement with our members and I am pleased to report that we have done this through a combination of existing and new initiatives. We have introduced quarterly "Member Meet-Ups" for member-only networking, at a variety of CBD venues. They have proved very popular with attendances averaging around 100.

We have also delivered three successful Fellows' Lunches, with a stronger focus on technical subjects. Keynote speakers from AusAid, NBN Co, and the power sector attracted capacity crowds of around 400 to each event.

I have also been able to visit most of our regional groups, culminating in the country family weekend hosted by the South East Group at Warrnambool. It has been a pleasure to witness first hand the hard work that is done by these groups.

We have continued with our regular meetings with key Ministers in the State Government on issues including infrastructure spending, national registration, changes to planning regulations and opportunities and challenges for migrant engineers.



WESTERN AUSTRALIA DIVISION

Prof Mark Bush

President

The Division has increased the momentum developed over the last couple of years, drawing energy from a state in which industrial activity continues to grow strongly. The transfer to a new Division Director in the latter part of the year went smoothly.

CPD activity is strong: the Division meeting rooms are rarely quiet in the evenings. There are signs that interest in being Chartered is growing among members. Most importantly, activity in the regional areas is strengthening. In particular, after several years of inactivity, the Great Southern Group (Albany) was reinvigorated during the year and is now running significant networking and CPD activities to support members based in that region.

The 2010 **Year of Engineering Leadership** program culminated in a range of events supported by CELM, Engineering Week activities and the Young Engineers. Towards the end of the calendar year, a **Year of Humanitarian Engineering** working party was established to propose and develop events for 2011. The theme for the year has been firmly established through the adaptation of a number of regular events, and the running of special events focusing on humanitarian engineering.

FROM OUR COLLEGE CHAIRS



COLLEGE OF BIOMEDICAL ENGINEERS

Graeme Macaulay

Chair

It has become apparent to members of the board that the future direction of the clinical engineering profession has become blurred. This realisation led to a significant body of work to develop a discussion paper titled *Crossroads – A Discussion Paper on Managing Medical Technology for an Assured Future*. With the public release of this document in August, it is expected that we will be able to promote significant debate within the profession, the health sector and the wider community towards a clearer future.

Over the past 12 months the college has continued its work to provide the profession with CPD at a national level. 2011 will see the final joint conference between the Biomedical College and ACPSEM. This split will allow for the expansion of the Australian Biomedical Engineering Conference (ABEC) to include all streams of the biomedical engineering field. The organising committee under the guidance of the College Board is well on the way to hosting the first standalone conference in Brisbane in 2012.

2011 saw the College of Biomedical Engineering formalise its affiliation with the International Federation of Medical and Biomedical Engineers (IFMBE). This international relationship opens the door to exciting opportunities in the future, especially in the Asia Pacific region.



COLLEGE OF CHEMICAL ENGINEERS

Assoc Prof Brian O'Neill

Chair

The efforts of volunteers in our profession continue to amaze me. Chief among these were the organising committee who delivered Chemeca2010 in Adelaide last September. This was the largest and most successful Chemeca conference to date, attracting over 500 national and international delegates, with some 450 papers presented. A significant innovation was the linking of conference papers to nine journal issues to attract high quality papers and presentations.

A highlight of the conference was the presentation of seven Awards of Excellence in Chemical Engineering, plus the prestigious Chemeca Medal and the John A Brodie Medal. Chemeca 2011 will be held in Sydney and planning is underway for 2012 in Wellington.

It is extremely pleasing that the National Committee on Fuels and Energy has been re-formed, with Dr Mike Sargent as Chair. It has taken on the daunting task of developing an issues paper on Australia's future energy options and strategy, with a conference being considered for mid 2012 to consider issues raised and future directions.

Prof Hans Müller-Steinhagen of the University of Stuttgart is a world leader on the practical application of fuel cell technology. As a keynote speaker at Chemeca, he delivered a plenary session on "Fuel cells with wings", and followed with a tour of Australian capitals as the College's eminent speaker on "Power from the Desert for Sustainable Energy Provision".

I would like to take this opportunity to thank all members of the Chemical College Board for their commitment and support during the year.



COLLEGE OF CIVIL ENGINEERS

Matthew O'Hearn

Chair

As Chair of the Civil College, it is pleasing to see that our membership numbers have continued to increase through the year.

The CECAR5 conference held in Sydney last August received an outstanding response from the more than 500 national and international delegates attending. The 2010 Civil Engineer of the Year, Dr Tony Wong, generously undertook an Eminent Speaker tour which was well-received in all centres he visited.

The Civil College Board is actively supporting the efforts of the Structural College to develop their Confidential Reporting on Structural Safety (CROSS) initiative. Phil Blundy, Chair of the Structural College Board, and I will be developing a proposal to take to Congress in November to seek support for this.

I am particularly delighted that the Civil and Structural Colleges are collaborating on a joint awards event in Sydney on 27 October this year.

A highlight of the year was an inspirational presentation by Ms Kerryne Liddle from Sinclair Knight Merz to the Board in April this year. We were fortunate that national Councillors Bronte Strout and Doug Gillott, and South Australia Division President Dr David Cruickshanks-Boyd were in attendance. Ms Liddle's presentation made us more aware of indigenous engagement issues and inspired the Board to promote the work that is being undertaken by some companies and Engineers Australia on Reconciliation Action Plans in this ***Year of Humanitarian Engineering***.

FROM OUR COLLEGE CHAIRS



COLLEGE OF ELECTRICAL ENGINEERS

Mark Blundell

Chair

The Electrical College Board holds a one-day executive planning meeting early each year, a two-day full board meeting mid-year coinciding with our major awards event, and another towards the end of the year. The full board meetings are attended by representatives from each Division as well as representatives from the ITEE College, affiliated national committees and societies including YEA and WIE, and fraternal institutions (IET and IEEE). In this way, the Electrical College Board has access to a wide range of stakeholders and information from the electrical engineering community.

Among the activities that the Board is involved with, among the most important from our members' point of view are the provision of CPD and our recognition of achievements. The program of events for each Division are discussed, and learnings shared among all representatives. Notably some Divisions are able to attract greater audiences to their presentations than others.

The Board administers a number of prestigious annual awards. I would once again like to extend my congratulations to 2011 M A Sargent Medal winner Dr Paul Wilson, 2011 National Professional Electrical Engineer of the Year Paul Blanchfield, Graduate Electrical Power Engineer of the Year Annie Tchung, and John Madsen Medal 2010 winner Phillip Mathers.



COLLEGE OF ENVIRONMENTAL ENGINEERS

Dr Julia Lamborn

Chair

I am very pleased to report that the Board of the College of Environmental Engineers had a successful year, and I wish to thank all Board members for their contributions.

The College has continued to focus on the definition of technical competencies and graduate outcomes for environmental engineering programs as part of the ALTC grant (DYD – Defining Your Discipline) lead by A/Prof Roger Hadgraft from the University of Melbourne and Prof David Dowling from the University of Southern Queensland. The focus this year has been to refine the outcomes developed last year. This year workshop sessions are being run with universities across the country. The revised technical competencies and graduate outcomes will then be sent to all universities and College members for comment prior to the board finalising these early in 2012. I strongly urge all College members to provide input into this important process.



COLLEGE OF INFORMATION, TELECOMMUNICATIONS AND ELECTRONICS ENGINEERING

Peter Hitchiner

Chair

The College has the potential to serve a large constituency of engineers working in the information and communications technology and electronics sectors of the economy, so it is disappointing that too few have a sense of belonging to an engineering community and the importance of the engineering discipline.

The eminent speaker tour by Dr Terry Stevenson was particularly relevant in emphasising the importance of the engineering discipline to the success of complex projects which include information systems and software.

We are endeavouring to build links with other engineering disciplines (including other College Boards and National Committees) where information technology has a particularly strong presence, including future intelligent transport systems. Such systems will become more complex as the need for more efficient, safer and sustainable transport becomes increasingly important. Opportunities exist in this sector to build new industries which require engineers such as those recognised by the IREE Neville Thiele award.

Communication is an important aspect of our service to members and electronic delivery of the College's magazine Monitor is now well accepted. Individual contributions of items has been disappointing and I continue to encourage them including through increasing use of social media building the ITEE community.

I wish to thank all members of the Board for their contributions during the past year.

FROM OUR COLLEGE CHAIRS



COLLEGE OF MECHANICAL ENGINEERS

Earl Heckman

Chair

I am pleased that we have made progress with several of our strategic priorities, and recognize that we have work yet to do in some others.

Significant progress has been made, with Mechanical College Board support, to reactivate the publication of the Australian Journal of Mechanical Engineering. A Journal was published in June, with a further issue scheduled within the next 2 months. The AGM Michell Award for 2011 was presented to Dr Alan Baker at our presentation dinner in April 2011, and he will most likely undertake an Eminent Speaker tour in early 2012.

It is most important to continue involvement with undergraduate engineering. Mechanical College Board members have been engaged to assist with the Accreditation Panel this year, and as required with future reviews of Degree programs in Engineering Universities, depending on location and availability.

We realize that there is considerable work to be done to improve our working relationship with our various National Committees and Panels.

The College Board has welcomed some new Division representatives, and Paula West has accepted the position of Deputy Chair.



COLLEGE OF STRUCTURAL ENGINEERS

Phil Blundy

Chair

The Structural College Board has been working on better strategies for two-way communication between the Board and College members. Our first member communication on CROSS (Confidential Reporting on Structural Safety) received an overwhelmingly supportive response from members. The Civil College Board also fully supports our efforts in developing the CROSS initiative and the Civil College Chair Matthew O'Hearn and I are developing a proposal to take to Congress to seek support for this very worthwhile initiative.

Planning for ASEC 2012 is well advanced and discussions are being held with IPENZ on holding ASEC 2014 in New Zealand. We are also investigating the possibility of a combined ASEC/IABSE conference in 2016.

I would like to thank Paul Grundy for undertaking an Eminent Speaker tour on "Disaster Risk Reduction and the Engineer". The feedback from Paul's tour has been extremely positive. I would also like to thank Rob Heywood for the seminars he presented on "Forensic Engineering" as well as "The Experiences of a USAR Engineer in Christchurch" during the year.

Five editions of the AJSE were published during the year and my thanks to Rob Melchers, Editor of the AJSE, and the Editorial Panel for making this happen.

Finally, I would like to thank the Structural College Board for their support and hard work throughout the year. I know that the Board will be in good hands when Richard Eckhaus takes the chair in November.



PETER NICOL RUSSELL MEMORIAL MEDAL 2011

This is the most prestigious award made by the Institution. First awarded in 1923, it perpetuates the memory of Sir Peter Nicol Russell, a Sydney industrialist during the latter half of the 19th century, who made major donations to the cause of engineering in Australia.

The award is presented annually to a Fellow of the Institution who has made a notable contribution to the science and/or practice of engineering in Australia. The recipient represents to both the engineering profession and to the engineering community the high technical, professional and community service standards of engineering.



Professor Andrew Richard Downing

HonFIEAust CPEng

Professor Andrew Downing has long been involved in voluntary work, drawing on his engineering skills to serve the community.

Andrew was appointed Foundation Professor of Engineering (Biomedical) at Flinders University in 1992, where he established teaching and research programs in biomedical engineering – a relatively new area of engineering specialisation – with very considerable success, particularly in the development of assistive devices for persons with disabilities. His continuing research involves communication and control systems, and other assistive devices for persons with disabilities; technology for ageing population; rehabilitation engineering; human/computer interfacing and environmental monitoring.

He was a driving force in the establishment of the College of Biomedical Engineers within Engineers Australia and was elected College Chair for 1995-97. He was elected President of South Australia Division for 2000 and 2001. After several years of service as a Councillor, Andrew was elected National President of Engineers Australia for 2005.

He launched Engineers Australia's Engineering Enterprise Partnerships which contributed to outstanding growth of 50% in industry sponsored professional development programs for 3200 graduate and experienced members.

In 1994, Andrew was a co-founder of Seniors-On-Line, a not-for-profit organisation that specializes in introducing people over 50 to computing through a highly supportive learning environment. The initiative won the organisational category of the South Australia Equal Opportunity Award in 1995. Many of the teachers are retired engineers.

Andrew is also involved in voluntary community work as a board member of Novita Children's Services, an organisation providing therapy and support services to over 1,000 children with disabilities and their families. His focus in recent years has been on encouraging young engineers to take a leading role in the profession and the community through the establishment of generational exchanges and educational linkages groups.

In 2009 Andrew was the recipient for the David Dewhurst Biomedical College Award. He is presently Chair of the Engineering Education Australia Board.

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AUSTRALIA**

HONORARY FELLOWS

Council has resolved during 2011 that the following persons be designated as Honorary Fellows of Engineers Australia. For each recipient, the supporting text comprises a précis only of the full citations considered by Council.

An Honorary Fellow is, in the opinion of the Council, a person who has rendered conspicuous service to the profession of engineering or is eminent in engineering or an allied science, or is a distinguished person whom the Council desires to honour, either for having rendered conspicuous service to the Australian people or in recognition of outstanding achievement.

AN HONORARY FELLOW IS, IN THE OPINION OF THE COUNCIL, A PERSON WHO HAS RENDERED CONSPICUOUS SERVICE TO THE PROFESSION OF ENGINEERING OR IS EMINENT IN ENGINEERING OR AN ALLIED SCIENCE

Prof Alex Baitch

HonFIEAust CPEng

Alex Baitch has had a successful career over a 30 year period as a principal in his own consultancy business, as a strategic planner in Integral Energy, and as a leader in the Industrial Division at Toshiba.

In these highly competitive fields, he has earned the respect of his clients and employers alike. At Toshiba, he ran a division with a \$60m turnover. At Integral, he was responsible for the strategic planning of the development of electricity networks.

Alex is not a narrow specialist or manager. His value lies in his work ethic and inventiveness, and his exceptional broad knowledge, experience and expertise. He is an ideal consultant to governments, universities, utilities and companies in the electricity industry.

His strategic perceptions have resulted in great benefits to the organisations with which he has been involved. Alex was the driver in getting Integral Energy to embark on a strategic review of their technical data information systems, proceeding to implementation of their Integrated Asset Information Management System. Similarly, he successfully undertook Expert Determination for the former National Electricity Market Management Company with respect to the Technical Performance Standards for two generating organisations in NSW who are participants in the National Electricity Market.

Alex has been a long-standing active member and office bearer for Engineers Australia. He was a member of National Council from 1994-98, and was elected to the current Council in 2009.

Anthony James Dawson

HonFIEAust CPEng

The expansion of the engineering knowledge base has been one of the major constants of Tony Dawson's long career.

After earning his Master of Engineering degree from Adelaide University in 1960, Tony worked as a research scientist for the UK Cement and Concrete Association.

He joined Kinhill Engineers in 1963 and has remained with that company (and its successors) almost continuously since. His skills and interests led to him being appointed Chief Engineer in the early 1970s, a position he retained from then on.

As Chief Engineer he would frequently be called on to tackle new and complex technical challenges. He was always conscious of the importance of promulgating new approaches and solutions to the broader engineering community, and would often publish these by writing papers or giving presentations at conferences.

A good example of this is the design of the Alice Springs to Darwin railway line, where Tony Dawson was the Design Director. It is argued that, due to early capital estimates, this nationally significant piece of infrastructure may not have been built but for his practical and theoretical expertise. Under his enthusiastic direction, everything from the alignment and track design through to the culverts and bridges was critically considered, and numerous ground breaking innovative designs developed.

These innovations were subsequently placed in the public domain through a series of published technical papers presented at the 2004 Conference on Railway Engineering in Darwin soon after the railway was opened.

HONORARY FELLOWS

John Michael Grill

HonFIEAust CPEng EngExec FTSE

John Grill's skill has been the ability to apply his civil engineering knowledge and experience to a sophisticated and competitive market sector.

The oil and gas industry operates in some of the most demanding conditions known to man – in the water, in and underground, in extreme weather, and in dangerous conditions. Grill understands the risks involved from first hand experience. He commenced his career as a construction engineer for Esso Australia. His professional experiences in the full range of conditions at sea have shaped his judgment for the rest of his career. He became involved in the design and specification of major offshore platforms and pipelines and later reviewed contractors' proposals for installing offshore facilities.

He joined a Sydney based consulting firm and expanded his experience setting up and supervising the computer section. John later became a principal of a small consulting firm and took the firm into the oil and gas industry. This was to be the forerunner of a global empire.

With his entrepreneurial skills, he enhanced the business to such an extent that it became an outstanding financial success.

In 2002 the Worley Group listed on the Australian Stock Exchange, and has grown via acquisitions including the recent merger with Evans and Peck.

John has been able to integrate diverse and separate firms, maintain the key staff, create the culture which encourages individuals, and provide leadership which results in challenging opportunities for advancement.

Air Vice-Marshal Julie Margaret Hammer (Rtd) AM CSC

HonFIEAust EngExec FTSE FRAeS GAICD

Air Vice-Marshal Julie Hammer, an electronics engineer, served in the Royal Australian Air Force for over 28 years in the fields of aircraft maintenance, technical intelligence, electronic warfare, and information and communications technology systems.

Julie was the first woman to command an operational unit in the RAAF, the Electronic Warfare Squadron, and was awarded a Conspicuous Service Cross for that command.

She was the first serving woman in the history of the Australian Defence Force to achieve One Star rank in 1999 and Two Star rank in 2003.

Her contribution to the profession and her leadership roles have been inspirational, and recognized with many professional, academic and community accolades. In 2009 Julie was awarded a Doctor of Engineering Honoris Causa by the University of New South Wales to recognise her eminent service to the profession.

For Engineers Australia, Julie was one of the inaugural Board Members of the Centre for Engineering Leadership and Management (CELM) and served as Chair of the CELM Board from November 2005 until August 2007. She led the development of advanced competencies for leadership, management and business skills. She was elected National President of Engineers Australia for 2008.

Julie is a Director of .au Domain Administration Ltd, the administrator of the Australian country code top level internet domain.

Hugh Ralston AM

HonFIEAust

Hugh Ralston is a distinguished and passionate engineering leader who has given a lifetime of service to the engineering profession and the community.

Through his leadership of and his involvement with The Warren Centre for Advanced Engineering, he has always been a particularly forceful advocate for the role engineering innovation can play in major public interest issues, and strongly committed to the commercial application of engineering innovation.

His innovative skills were evident from his early career. As a team leader at Crane Copper and Aluminium, he modified an alloy for roofing and improved its performance. As a Member of the Technical Standards Committee of the Aluminium Council, he successfully campaigned for a variation in the specifications to permit significantly better use of Australian scrap metal, with benefit for the industry as a whole.

As Chairman and Managing Director of Amalgamated Metal Australia Limited, Hugh drove a program of restoration of land after mining of alluvial chromite sands in northern Tasmania by bringing together AMA's mining staff and local environmental and forestry advisors.

His achievements continued through other leadership and mentoring roles in industry, including as strategic leader of the modernization of B and D Roller Doors.

Hugh is a tireless volunteer, mentor, fundraiser and engineering leader.

HONORARY FELLOWS

Edward Royston Scull OAM

HonFIEAust CPEng MACPSEM

Ed Scull is a professional engineer who has given to Australia much more than his technical skills, his mentoring in biomedical engineering, and the demonstrated ethical qualities of a leader in his field.

Among his peers, he is considered a visionary with the energy and passion for enhancing humanity and promoting human ability, and has given new meaning to care.

After qualifying as a mechanical engineer from the University of Melbourne, and undertaking post-graduate studies, Ed joined Royal Perth Hospital in the pioneering field of bioengineering in January 1969.

Within a few years Ed laid the foundation for the development of a bioengineering service that is still unique in Australia. Ed fought long and hard to establish a number of significant services. The custom implants service commenced over twenty years ago, and the implant tracking facility established over five years ago is one of the only facilities in Australia that track implants from insertion to removal.

He was chosen as Head of Department for Medical Engineering and Physics in 2002.

Ed is a truly inspiring but quiet achiever, who has made a passionate contribution to the profession as Board Chair for the College of Biomedical Engineers.

He was awarded the Order of Australia Medal in 2009.

Em Prof Elizabeth Anne Taylor AO

HonFIEAust CPEng

Emeritus Professor Elizabeth Taylor has been an active member of Engineers Australia for many years. In 1996 she was President of Sydney Division. She has been a member of two reviews of the Code of Ethics and of the Disciplinary Regulations.

Professor Taylor joined the University of Technology, Sydney as the part time Women in Engineering Coordinator, then joined the university as an academic. During the next 9 years she was involved in the redevelopment of the engineering curriculum at the university.

In 2001 she joined Central Queensland University as the Dean of the Faculty of Engineering and Physical Systems.

Since 2003 she has been Chair of the Board of Professional Engineers of Queensland. She is Chair of the Board of Engineers Media and Chair of the Board of RedR (Registered Engineers for Disaster Relief) Australia and its International Representative on the RedR International General Assembly, where she is Treasurer and Chair of the Governance Sub-Committee.

In 2004 Professor Taylor was made an Officer in the Order of Australia “for service to engineering education through the design and implementation of innovative academic programs, to professional associations and to enhancing the status of women in the profession and promoting it as a career option”.

Elizabeth was elected President of the Australian Council of Engineering Deans for 2007-08, and has been listed among Australia’s Top 100 Engineers on several occasions including in 2011.

Prof Ian Robert Young

HonFIEAust CPEng FTSE

Professor Ian Young is both a leading engineering researcher and a leading academic engineer. In both these roles he has influenced and contributed to community welfare.

Prof Young has contributed as a member of Engineers Australia’s National Committee on Coastal and Ocean Engineering. He has held many national leadership roles in research and academia, including as a Board member for three Cooperative Research Centres, and as a Board member of the Business-Higher Education Round Table.

Many researchers and engineering practitioners have drawn upon his research work. His expertise has been sought for consulting projects both in Australia and internationally.

He has authored many papers which have been presented and published through professional bodies, including Engineers Australia.

Engineers Australia’s Journal has nominated Prof Young as one of the Top 100 most influential engineers each year since 2006.

His contribution to the profession is recognised through his research effort and related extra-mural activities, through his appointment as Vice Chancellor at Swinburne University, one of Australia’s few dual sector institutions – the university’s national rankings increased during his tenure – and his appointment as Vice Chancellor of the ANU, Australia’s internationally ranked premier university.

In summary, Prof Young has, through hard work and discipline, pursued a career which has demonstrated his leading contribution to the profession and to the community as an engineer, as an academic and as a consultant.



RETIREMENT OF PETER TAYLOR HonFIEAust - CHIEF EXECUTIVE 2004-2011

Peter Taylor has made an eminent contribution to the engineering profession over 45 years.

Following graduation from Queensland University, and service in engineering appointments in the Australian Army from 1968 to 1976, Peter began a career in local government, initially in Hobart, then Launceston, and finally at Toowoomba. He later became Chief Executive of Toowoomba City Council.

His strengths in all of these appointments were in his competent application of technical engineering practice, and his management and leadership skills. For a period, he was National President of the Association of Public Works Engineers Australia. Peter was particularly diligent in seeking engineering solutions which were practical, environmentally sustainable, and financially viable. He was held in high esteem by all who worked with him for his quiet but determined approach, and in his strong desire to mentor younger engineers. He left an indelible mark on local government engineering and beyond.

Peter brought this considerable experience to the role of Chief Executive of Engineers Australia in 2004. In the seven year period before he retired through ill-health this year, he worked with the Council and staff to grow the membership, and provide comprehensive long term and focused strategic planning and budgeting. He heightened the Institution's profile with both government and the community. Our international links are now also more substantial than they have ever been, thus supporting the transfer and recognition of skills in the global engineering community.

Peter's contribution to local government engineering was recognized with the Centenary Medal, and he has subsequently enhanced greatly the role and value of Engineers Australia as a professional association through his inspiring leadership and commitment.



Past National Presidents of Engineers Australia with whom he served recall not only his management and leadership qualities, but also his passions for photography and quality ice cream, and the camaraderie that grew inevitably with shared experiences during their many national and international visits together:

- *it was a very great pleasure to travel with Peter and to see his professionalism and the relationships that he had built with our kindred organisations around the world*
- *while I had my ideas on how we could achieve the objectives we all agreed on, it was quickly evident to me just how much more we were achieving as a result of Peter's administrative and organisational skills*
- *his efforts have contributed greatly to EA's status as a leader amongst the world's engineering organisations*
- *Peter led a cultural shift across the organisation ... to one that is far more collaborative in both thinking and operation*
- *there are many words that come to mind when trying to capture the character of Peter but for me integrity, resilience, visionary, passionate are at the top of the list.*

**PETER'S
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THE WORLD'S
ENGINEERING
ORGANISATIONS**



Peter and wife Barbara at the Past Presidents' farewell dinner in April 2011

COLLEGE AWARDS 2010-2011

There are many awards made each year across the many groups associated with Engineers Australia. The details of the awards and the recipients will in most cases be accessible in the respective pages of Engineers Australia's website. The following list acknowledges the pre-eminent College awards made during financial year 2010-2011.

Biomedical College	<p><i>2010 David Dewhurst Award</i></p> <ul style="list-style-type: none"> - awarded annually to a professional biomedical engineer who has made a significant contribution to the discipline. 	Prof Alexander John McLean
Chemical College	<p><i>2010 Chemeca Medal</i></p> <ul style="list-style-type: none"> - awarded to a prominent Australian or New Zealand chemical engineer who has made an outstanding contribution to the practice of Chemical Engineering and who continues to serve the profession. 	Ross McCann
Civil College	<p><i>2010 Sir John Holland Civil Engineer of the Year Award</i></p> <ul style="list-style-type: none"> - provides a high profile focus on engineering achievement and serves as both a showcase for civil engineering and a focus for young people interested in pursuing a career in engineering. 	Prof Tony Wong
Electrical College	<p><i>2011 MA Sargent Medal</i></p> <ul style="list-style-type: none"> - a long established and prestigious award made by the Colleges of Electrical Engineering and Information, Telecommunications and Electronic Engineering. 	Dr Paul Wilson
ITEE College	<p><i>2010 IREE Neville Thiele Award</i></p> <ul style="list-style-type: none"> - the College's most prestigious award, named in honor of an outstanding Australian electronics engineer; the award recalls also the Institution of Radio and Electronic Engineers (IREE) in Australia. 	Mr Robert Hodges
Mechanical College	<p><i>2010 AGM Michell Medal</i></p> <ul style="list-style-type: none"> - presented for outstanding service to mechanical engineering through technical innovation or long-standing eminence, and/or notable and sustained leadership in mechanical engineering. 	Dr Alan Anthony Baker
Structural College	<p><i>2010 John Connell Gold Medal</i></p> <ul style="list-style-type: none"> - presented to an eminent structural engineer who is considered to have made an outstanding contribution to the practice of structural engineering in Australia. 	Prof Paul Grundy



OUR GOVERNANCE

- Profile
- National Congress
- Council 2011
- Governance Framework
 - Charter
 - Strategic Plan
 - Stakeholders
 - Performance Management
 - Corporate Social Responsibility



ENGINEERS AUSTRALIA - PROFILE

THE NATIONAL FORUM FOR THE ADVANCEMENT OF ENGINEERING AND THE PROFESSIONAL DEVELOPMENT OF OUR MEMBERS

- **Engineers Australia is a member-based not-for-profit professional association.**
- **It is the largest and most diverse professional engineers body in Australia.**
- **At 30 June 2011 there were over 97,000 members, of whom nearly 39,000 were student members.**
- **Over 5,000 of these members are domiciled overseas, in over 100 different countries around the world.**

Structure

The Institution of Engineers Australia (Engineers Australia) is a body corporate constituted by Royal Charter.

It is governed according to By-laws, which may be amended only by membership ballot.

The governing body is a nine-person Council, which is elected by a National Congress.

The national Congress comprises some 50 representatives covering our nine geographic Divisions, eight engineering College Boards and our seven special interest groups.

The Division Committees deliver the strategic plan to members, advise Council on Division issues and are bound by new Division Regulations (2010).

The Colleges fulfil the learned society functions of Engineers Australia and are governed by College Boards, and are bound by new College Regulations (2010).

Engineers Australia has four overseas Chapters in Singapore, Malaysia, Hong Kong, and the United Kingdom, and three interest groups in Thailand, the USA and the Middle East.

Some 30 multi-disciplinary Technical Societies and other related groups are affiliated with Engineers Australia to varying degrees and provide direct links with other professions with common interests.

There was no major change in the organisation during 2010-2011.

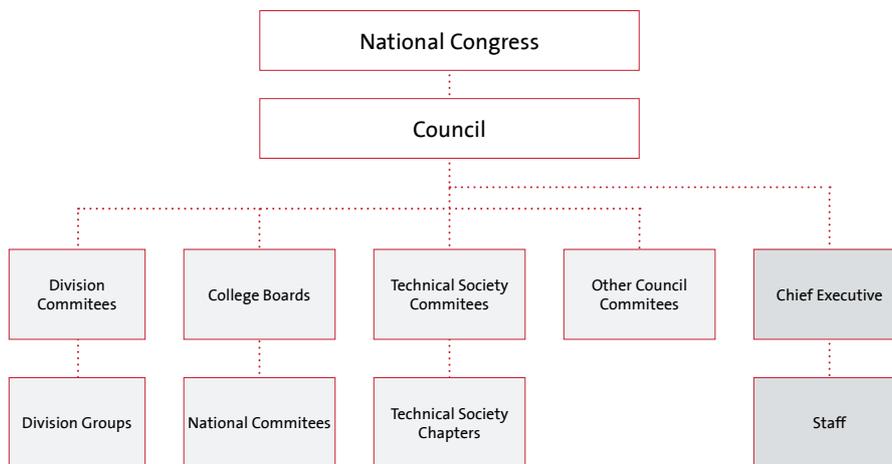
Subsidiaries

Engineers Australia is supported by its two principal controlled entities – Engineers Australia Pty Ltd (trading as Engineers Media) and Engineering Education Pty Ltd – also not-for-profit companies with separate governing boards. Their results for 2010-2011 operations are summarised at page 54.

Annual General Meeting 2010

In accordance with the then Bye-law 51, the 90th AGM of the Institution of Engineers Australia was held in Canberra on 25 November 2010, including:

- Presentation of the Annual Report and audited financial statements for 2009-2010, and election of auditors
- Reporting of the results of ballots for National Congress and Councillors for 2011
- Installation of the incoming National President
- Presentation of awards, Peter Nicol Russell Memorial Medal, and Honorary Fellow certificates.



Simplified representation of lines of authority within Engineers Australia

Special interest groups are included under 'other Council committees'.
The many support and liaison relationships that exist are not shown.

NATIONAL CONGRESS

National Congress is the peak representative body of Engineers Australia. It has specific powers and is comprised of some 50 delegates representing the various units and groups of Engineers Australia such as Divisions and Colleges.

This Annual Report refers to the activities of National Congress during financial year 2010-2011. The effect on delegate tenures of the transitional provisions in the new Charter and By-laws will be reflected in next year's Annual Report.

NATIONAL CONGRESS SPECIAL MEETING JULY 2010

The 2010* National Congress held a special meeting on 27-28 July 2010 and

- formally debated, amended and approved by an overwhelming majority a new Royal Charter and By-laws for consideration in a ballot of the members in October 2010.
- made an amendment to and approved a new form of our Code of Ethics, which took effect 28 July 2010.

NATIONAL CONGRESS ANNUAL MEETING NOVEMBER 2010

The 2010* National Congress held its annual meeting on 24-25 November 2010 and

- elected the 2011 National Deputy President, the Councillor for Finance, and two other Councillors.
- noted the report from Council on Engineers Australia's performance and the actions of Council during 2009-2010.
- supported Council's intention to address issues arising from the By-laws ballot process.
- noted a range of reports on current and completed initiatives.
- supported the move to a web-based forum to assist development of papers to be submitted by delegates to annual National Congress meetings.
- debated matters raised by delegates.
- supported a review of the disciplinary processes, contingent on the new 2011 Charter and By-laws coming into effect.

* For the purposes of this year's Annual Report, the tenure of delegates to National Congress listed here were determined by the then existing Bye-laws as commencing at the first meeting of the year. The 2010 National Congress therefore commenced its tenure on 27 July 2010. The 2009 National Congress members that attended the July 2010 meeting are listed in the 2009-2010 Annual Report.

The 2010 National Congress members were:

National President

Prof Doug Hargreaves FIEAust CPEng EngExec

National Deputy President

Mr Merv Lindsay FIEAust CPEng

Immediate Past National President

Mr Peter Godfrey FIEAust CPEng EngExec

Past National President

AVM(Rtd) Julie Hammer AM FIEAust EngExec

Councillors - not otherwise delegates to Congress

Councillor Responsible for Finance

Mr Bruce Howard FIEAust CPEng

National Vice President Engineering Practice and CPD

Dr Marlene Kanga FIEAust CPEng

National Vice President International and National Policy

Mr David McHugh FIEAust CPEng

National Vice President Communication and Marketing

Mr Bronte Strout FIEAust CPEng

National Vice President Corporate Social Responsibility

Mr Barry Tonkin JP FIEAust CPEng

Delegates elected by members within Divisions

Canberra Division

Mr Thomas Brimson FIEAust CPEng

Newcastle Division

Mr Barry Finlay FIEAust CPEng

Northern Division

Mr Peter Hagan FIEAust CPEng

Queensland Division

Mr Sam Fernando FIEAust CPEng

Mr Geoff Haigh FIEAust CPEng

Adj Prof David Hood FIEAust CPEng

South Australia Division

Dr David Cruickshanks-Boyd FIEAust EngExec

Sydney Division

Mr David Edwards FIEAust CPEng

Prof Alex Baitch FIEAust CPEng (Councillor)

Mr Norman Himsley FIEAust CPEng

Tasmania Division

Mr Grant Atherton FIEAust CPEng

Victoria Division

Mr Geoff Hayes FIEAust CPEng

Ing Kelvin Lillingstone-Hall FIEAust CPEng

Miss Madeleine McManus FIEAust

Western Australia Division

Prof Tony Lucey FIEAust CPEng

Mr Chris Fitzhardinge FIEAust CPEng

NATIONAL CONGRESS

Delegate elected by members resident outside Australia

Mr Pick Eng Chong FIEAust

Delegates elected by Division Committees

Canberra Division

Ms Jennifer Murray MIEAust CPEng

Newcastle Division

Mr Paul Reynolds MIEAust

Northern Division

Mr Leonard Chappell TFIEAust CEngT

Queensland Division

Mr Andrew Chapman MIEAust

South Australia Division

Mr Doug Gillott FIEAust CPEng

Sydney Division

Mr Kevin Dixon FIEAust CPEng

Tasmania Division

Mr Michael Green FIEAust CPEng

Victoria Division

Mr Frank Novacco OFIEAust

Western Australia Division

Ms Lorie Jones FIEAust CPEng

Delegates elected by College Boards

Biomedical

Mr Mike Flood FIEAust CPEng

Chemical

Dr Debashis Raha FIEAust CPEng

Civil

Mr Matthew O'Hearn FIEAust CPEng

Electrical

Mr Albert Koenig FIEAust CPEng

Environmental

Dr Julia Lamborn FIEAust CPEng

ITEE

Mr Peter Hitchiner FIEAust CPEng

Mechanical

Mr Graeme Field MIEAust CPEng

Structural

Mr Philip Blundy FIEAust CPEng

Delegates elected by other prescribed groups

Committee of Society Chairs

Mr Douglas Roser FIEAust CPEng

Mr Chris Dalitz FIEAust CPEng

Centre for Engineering Leadership and Management

Dr Bronwyn Evans FIEAust EngExec

Engineering Technologists

Mr Hari Krishnan TMIEAust

Engineering Associates

WGCDR Ross Magno OFIEAust CEngO

Women in Engineering

Mrs Michelle Shi-Verdaasdonk MIEAust

Young Engineers

Mr Andrew Dedman MIEAust

COUNCIL 2011



*Back Row: Bronte Strout, Bruce Howard, Dave McHugh, Marlene Kanga, Doug Gillott, Alex Baitch
Front Row: David Hood, Merv Lindsay, Doug Hargreaves*



National President

Mr Merv Lindsay FIEAust CPEng

Merv Lindsay is a civil and structural engineer and principal of Lindsay Dynan Consulting Engineers, a medium size consulting practice with offices in Sydney and Newcastle. He has served Engineers Australia in many roles over the past 30 years, including past President of Newcastle Division. Merv has been a member of Congress since 2002, he was elected to Council in 2006 and elected as National Deputy President in 2009.



National Deputy President

Prof David Hood FIEAust CPEng FIPENZ FISEAM

Prof David Hood, a civil and environmental engineer, is Chairman of his own consulting practice, and also leads the sustainability program for the CRC for Infrastructure and Engineering Asset Management (CIEAM) based at QUT. David, an accredited Presenter with Al Gore's Climate Project, is the Founding Chairman of the Australian Green Infrastructure Council (AGIC). David was a founding Director of both the Australian Council of Built Environment Design Professions (BEDP) and the Australian Construction Industry Forum (ACIF). He is the immediate Past Chairman of Australia's College of Environmental Engineers, and in November 2010, was elected National Deputy President.



Immediate Past National President

Prof Doug Hargreaves FIEAust CPEng EngExec

Doug Hargreaves is the Head of the School of Engineering Systems at Queensland University of Technology. He is a mechanical engineer who has published over 100 refereed papers and over 30 papers on engineering education. He has a long involvement with Engineers Australia including Queensland Division President, Queensland CELM and the Mechanical College Board. He was a delegate to Congress in 1999-2000, and elected to Council as National Deputy President in 2008.



Councillor Responsible for Finance

Dr Marlene Kanga FIEAust CPEng

Dr Marlene Kanga is a chemical engineer with long experience running her own businesses, mainly in risk engineering and electronic surveillance applications. She was Chair of Engineers Australia's Women in Engineering National Committee from 2008 to 2009, and took a major role in the 2007 Year of Women in Engineering campaign. She is currently the Chair of Engineers Australia's Audit and Risk Committee and Chair of Engineers Australia's Innovation Task Force. Marlene has been a member of Congress since 2007 and was elected to Council in 2007.

COUNCIL 2011



National Vice President Communication and Marketing

Mr Bruce Howard FIEAust CPEng

Bruce Howard is an electrical engineer and has built his career working with NSW power utilities. He is a past President of Sydney Division, and has been a member of National Congress since 2001. Bruce was elected to Council in 2002, and has held a number of portfolios including Public Policy, Marketing/Communication and being elected as Councillor Responsible for Finance (and Chair of Engineers Australia's Audit and Risk Committee) for a number of years.



National Vice President Corporate Social Responsibility

Mr Bronte Strout FIEAust CPEng

Bronte Strout is a civil engineer with long experience in business and project management. He has a strong background in infrastructure development and contract documentation and is experienced in leading multidisciplinary teams in large engineering projects. He is a past member of the Civil College Board and a past President of South Australia Division. Bronte has been a member of Congress since 2006 and was elected to Council in 2007.



National Vice President Education and Assessment

Prof Alex Baitch FIEAust CPEng

Prof Alex Baitch is an electrical engineer and principal of his own consulting practice in electrical distribution, utilisation and energy management and is a Visiting Professorial Fellow at the University of Wollongong. He has served Engineers Australia in many roles over the past 30 years, including Chairman of the Electrical College, director of Engineering Education Australia, a director of RedR Australia and being a member of the Board of Management. Alex has been a member of Congress since 2009 and was elected to Council in 2009.



National Vice President International and National Policy

Mr David McHugh FIEAust CPEng

David McHugh is a civil engineer working in planning, design, construction and maintenance engineering. He has over twenty years experience at the senior engineer and director level in the design, documentation and construction supervision of major road works and bridges, subdivisional developments, port infrastructure, and major community projects. David has been involved in Engineers Australia activity since 2002 at the Division and National level. He became a Congress member in 2003 and was elected to Council in November 2009.



National Vice President Engineering Practice and CPD

Mr Doug Gillott FIEAust CPEng

Doug Gillott is a mechanical engineer specialising in complex mechanical systems in defence, rail and energy sectors and their through life management. Doug is a Past President of South Australia Division and has been active as an office bearer since 1997. He was elected to Council in November 2010 after two terms as a member of Congress. His primary objective is to make sure that members' concerns are at the forefront of Engineers Australia's planning.

COUNCIL 2011



Council is the nine-person peak policy-making and governing body of Engineers Australia, responsible for day-to-day leadership. It meets four to five times a year and interacts with senior management on a continuous basis. Councillors are elected from the National Congress.

The Council determines the regulations and policies, which are binding on members, office bearers and staff. The Council appoints and directs the Chief Executive, who conducts the ordinary business of Engineers Australia through the staff in National Office in Canberra and in Division offices around Australia.

Councillors are members of Engineers Australia, are bound by a Council Code of Practice, and participate in an annual Council self-evaluation. Councillors are provided with a structured induction and governance training.

COUNCIL MEETINGS 2010-11

18 August 2010	Sydney
12 October 2010	Teleconference
23 November 2010	Canberra
23 February 2011	Canberra
18-19 May 2011	Melbourne

SIGNIFICANT COUNCIL ACTIONS OF 2010-11

- Approved the 10-year financial plan, the operational plan and budget for 2011-12
- Approved the Financial Statements for the year ended 30 June 2010
- Approved a list of key priorities for 2011-12
- Declared 2012 as the **Year of the Regional Engineering Team**
- Approved revised Stage 1 competency standards for professional engineer, engineering technologist and engineering associate
- Approved Policy Statements on Assistive Technology for Australians and Assistive Technology for An Ageing Population
- Adopted guideline documents for individual awards
- Endorsed the Management Information System (MIS) Renewal Program Architecture and Technology Selection

- Resolved to adopt the Engineers Australia Code of Ethics Regulations
- Approved amendments to Regulations for the Election and Appointment of Office Bearers and to the Division Regulations
- Approved the Accreditation Board Terms of Reference
- Approved the Terms of Reference for the Special Committee of Council on Being Chartered
- Approved the Terms of Reference for the Regional Special Interest Group National Committee and confirmed that Committee as the Steering Committee for 2012 Year of the Engineering Team
- Approved Terms of Reference for the Remuneration Committee
- Approved the Reconciliation Action Plan (RAP) Committee Terms of Reference
- Approved Terms of Reference for an internal Council effectiveness review
- Established a Special Committee of Council to examine issues raised by the membership during the 2010 Ballot
- Endorsed the Engineers Australia nominees to the RedR Board and to PMSEIC
- Approved appointments to the CELM, Accreditation, Engineers Media and Engineering Education Australia Boards
- Approved the re-appointment of the Commissioner for Ethics & Discipline
- Approved the appointment of the Acting Chief Executive

Councillors, with the assistance of expert facilitators, also participated in strategic workshops

- to determine new directions for member engagement and member services based on member survey feedback
- to consider options for future public policy and media strategies.

COUNCIL 2011

COMMITTEES OF COUNCIL 2010

The 2010 Standing Committees of Council were:

- **Audit and Risk Committee**
- **Honours and Awards Committee**
- **International Committee**
- **Accreditation Board**
- **Remuneration Committee**

The 2010 Special Committees of Council were:

- The **2010 CEO Succession Planning Committee** was formed to assist Council in setting the criteria for the appointment of the new CEO and selection of the recruitment agency.
- The **2010 RAP (Reconciliation Action Plan) Committee** made recommendations to Council for the establishment of the Engineers Australia RAP for launch in August 2011.
- The **2010 Review Committee of Council on Members being Chartered** was established to review and assess current status and success of the structures and strategies to encourage, promote and facilitate retention and conversion of members to be Chartered, and make recommendations to Council as considered appropriate.
- The **2010 Regional Committee** made recommendations to Council for strategies to support Engineers Australia members living and working in regional and rural Australia.
- The **2010 Post Ballot Committee** was established to recommend response actions to Council following investigation of issues raised by members during the 2010 ballot, including elements of the ballot process. This committee has not convened due to ongoing post ballot issues.
- The **2010 Disciplinary Process Review Steering Committee** was established to develop recommendations for the scope and structure of new disciplinary regulations and procedures consistent with the newly adopted By-laws of Engineers Australia. The committee has not convened due to ongoing post ballot issues.
- The **2010 Working Group for the 2011 Year of Humanitarian Engineering**
- The **2010 Steering Committee for 2012 Year of the Regional Engineering Team**

COMMITTEES OF COUNCIL 2011

Members of the Standing Committees of Council for 2011 are:

Audit and Risk Committee:

Dr Marlene Kanga FIEAust CPEng (Chair)
 Mr David McHugh FIEAust CPEng
 Mr Bronte Strout FIEAust CPEng
 Mr Will Laurie (External member)
 Mr Rupert Grayston FIEAust CPEng
 Mr Michael Allen

Honours and Awards Committee:

Mr Ian Pedersen Hon FIEAust CPEng EngExec
 Dr Tom Connor Hon FIEAust CPEng
 Maj Gen Bill Crews Hon FIEAust CPEng
 Dr Martin Cole Hon FIEAust CPEng
 Mr John Laurie Hon FIEAust CPEng

International Committee:

Adj Prof David Hood FIEAust CPEng
 Mr Barry Grear Hon FIEAust CPEng
 Dr Peter Greenwood FIEAust CPEng EngExec
 Mr Dave McHugh FIEAust CPEng
 Mr Rupert Grayston FIEAust CPEng
 Em Prof Robin King FIEAust CPEng
 Mr Douglas Gillott FIEAust CPEng
 Mr Brent Jackson
 Mr John Anderson FIEAust CPEng EngExec
 Dr David Robinson FIEAust CPEng
 Ms Cynthia Lee

Accreditation Board:

Em Prof Robin King FIEAust CPEng (Chair)
 Mr Richard Bevan FIEAust CPEng
 Dr John Yeaman FTSE FIEAust CPEng
 Mr Neville Power FIEAust CPEng EngExec
 Prof Alex Baitch FIEAust CPEng
 Ms Shireane McKinnie FIEAust EngExec
 Em Prof Elizabeth Taylor FIEAust CPEng
 Dr David Robinson FIEAust CPEng
 A/Prof Peter Hoffmann FIEAust CPEng
 Ms Jill Kiley

Remuneration Committee:

Mr Mervyn Lindsay FIEAust CPEng
 Adj Prof David Hood FIEAust CPEng
 Prof Doug Hargreaves FIEAust CPEng EngExec

The following Special Committees of Council continued their work from 2010:

- the **Review of Members being Chartered Committee**
- the **Reconciliation Action Plan Committee**
- the **2011 Year of Humanitarian Engineering Committee**

The Regional Special Interest Group National committee was confirmed to take the role of Steering Committee for 2012 *Year of the Regional Engineering Team*.

GOVERNANCE FRAMEWORK

ROYAL CHARTER AND BY-LAWS

The Institution of Engineers Australia (Engineers Australia) is a member-based not-for-profit professional association, constituted as a body corporate by Royal Charter.

For the period to which this Annual Report refers – 1 July 2010 to 30 June 2011 – the Supplemental Charter and Bye-laws granted by the then Governor-General in February 2006 were in effect.

The 2006 Charter set out the objects and purposes of the organisation, and provided for Bye-laws to govern the conduct of affairs.

Under the 2006 Charter, Engineers Australia's principal purposes were, in summary:

- to promote and advance the science and practice of engineering and to facilitate the exchange of information and ideas;
- to advance the interests of the profession and those engaged therein;
- to liaise with governments at all levels on matters of concern to the profession and to the wider community;
- to ensure the community has confidence in the profession by admitting only properly qualified practitioners as its members; and
- to promote ethical practice among its members.

NEW CHARTER AND BY-LAWS

In a fundamental development since the end of the reporting period, and following a successful membership ballot in October 2010, the Governor-General granted a further supplemental charter and approved new by-laws, dated 26 September 2011.

The original and all previous supplemental charters and bye-laws are revoked. Transitional provisions in the new charter and by-laws validate actions taken under the previous charter and bye-laws.

STRATEGIC PLAN 2010-2015

This Annual Report is the first to be prepared against the backdrop of new five-year Strategic Plan 2010-2015. The plan is available at www.engineersaustralia.org.au/strategicplan in both online and downloadable forms.

The Strategic Plan includes our vision, mission and values, and sets out 21 broad strategies across six strategic domains. It identifies a number of key indicators for success relevant to each domain.

Mission and Vision

Engineers Australia is the national forum for the advancement of engineering and the professional development of our members.

In our preferred future:

- *our community will look to Engineers Australia's members to create engineering solutions for a sustainable future*
- *Engineers Australia will ensure that the standards for engineering practice are world-class.*

Values

The new Strategic Plan carried forward the values and guiding principles from the previous plan. Since then, the new Code of Ethics and its supporting Guidelines on Professional Conduct have been approved by Congress. Members of Engineers Australia commit that, in the course of their engineering practice, they will:

- demonstrate integrity
- practice competently
- exercise leadership
- promote sustainability.

Full detail of the Code of Ethics and the Guidelines on Professional Conduct can be found at

www.engineersaustralia.org.au/ethics

Further, the Council of Engineers Australia adheres to a **Council Code of Practice**, office bearers are bound by our **Office Bearer Code of Conduct**, and staff are bound by our **Code of Conduct for Staff**.

Key Strategic Goals

Our new six Strategic Domains provide the framework for achieving our mission and vision over the 2010-2015 timeframe:

- 1 *Community Engagement*
Provide a forum for members of the profession to engage more directly in partnership with our communities on issues of concern to them
- 2 *Body of Knowledge and Professional Development*
Provide a forum to advance the science and practice of engineering to the highest standards
- 3 *Leadership and Influence*
Provide a respected voice for the profession to influence leaders and decision-makers on public policy and wider community issues
- 4 *Recognition, Promotion and Membership*
Inform our members and our stakeholders about the contribution of the profession in ways that promote its image and standing
- 5 *Education and Qualification*
Promote engineering as an attractive career option for young Australians of all backgrounds, and for others seeking to practise as engineers
- 6 *Internal Structure and Administration*
Ensure that our members and our staff have the best possible organisation, structures and support for them to work together to achieve our vision

GOVERNANCE FRAMEWORK

STAKEHOLDERS

Our key stakeholders are our members, procuring through annual fees the benefits of membership, including personal and professional development services, and providing the voluntary effort necessary to achieve learned society outcomes, in return for professional interaction and networking opportunities.

Other important stakeholders are:

- governments – as employers, regulators, and policy-makers influencing the conduct of the professions,
- employers of engineers,
- media – both mainstream and specialist,
- like-minded professional associations, and
- future members – necessary for sustainment and growth, and their influencers – parents, community/leaders, academics, employers.

Office Bearers

An office bearer is a member who has been elected or appointed to a committee of Engineers Australia, which may have a governance and/or operational role. All office bearer roles are honorary, and office bearers are bound by a code of conduct. There are regulations for the election and appointment of office bearers. Online support resources for office bearers and volunteers include role descriptions, inductions, governance information and operational guidelines.

Membership

Standard membership of Engineers Australia is open to any person with an accredited tertiary qualification, who commits also to abide by Engineers Australia's Code of Ethics. Other forms of membership are available, including student membership for persons enrolled in accredited tertiary undergraduate studies. Subject to prescribed assessment processes, members can become Chartered, conferred by Engineers Australia to confirm competency and currency in engineering practice and to certify public accountability for quality and safety. It upholds the social contract between the practitioner and the client, the profession and the community.

Engineers Australia relies on the combined efforts of our network of active members – who volunteer their expertise, enthusiasm, and time – and our dedicated staff who support them to give effect to many of the initiatives necessary for us to sustain our relevance into the future.

Ethics and Discipline

Revised Code of Ethics

Engineers Australia's By-laws give it the power to:

- codify ethical standards to be met by members (a Code of Ethics)
- enact Disciplinary Regulations to deal with members who breach the Code.

A revised Code of Ethics was approved by National Congress on 28 July 2010 following a major review led by the Commissioner for Ethics and Discipline.

While the 2000 Code had served us well, it was 10 years since it had been reviewed. It no longer represented the organisational and corporate environment in which modern engineering is practised.

An external review of the Code by a specialist research organisation, the Professional Associations Research Network (PARN) in the UK further highlighted a number of shortcomings in the 2000 Code.

After wide stakeholder engagement, a more contemporary Code which reflects best practice and which reaffirms the professional status of our members was adopted.

Some key features of the 2010 Code are:

- its simpler structure and style, making it more accessible to and easily understood by members, students, consumers and external stakeholders;
- it better reflects contemporary engineering practice applicable to collective professional conduct, as well as to individual ethical decision-making;
- it provides a more effective basis for disciplinary action.

Ethics Awareness Program

Ethical issues are rarely easy or straightforward. Ethical engineering practice requires judgement, interpretation and balanced decision-making in context.

An online ethics awareness program has been developed and is being pilot tested prior to a launch to the membership in early 2012. Engineers Australia's ethics awareness program is based on the premise that the Code of Ethics can never give us all the answers. Rather, it can only provide us with values and principles and give us a framework for analysis and decision making.

The program is aimed at not only educating our members and those aspiring to join the profession about their professional obligations but also developing case study material to illustrate how different ethical situations have been dealt with.

Complaints against members

The Commissioner for Ethics and Discipline reports annually to Congress. In his annual report in November 2010, the Commissioner reported that in the period 1 November 2009 to 31 October 2010, Engineers Australia:

- received 6 complaints against members of Engineers Australia, of whom 4 are registered on the NPER
- received 7 complaints against non members of Engineers Australia
- received 2 complaints against engineering firms, not within the remit of Engineers Australia to investigate
- reprimanded one member for misrepresentation of membership
- received representations from an aggrieved party in a family law matter
- received representations notifying fraudulent misrepresentation
- initiated disciplinary action against two members guilty of corrupt conduct.

GOVERNANCE FRAMEWORK

PERFORMANCE MANAGEMENT

2010-2011 was the first annual instalment towards the goals of our new Strategic Plan 2010-2015. Each year's Operational Plan is endorsed by Council, including key priorities for the year. Our key priorities looking ahead to 2011-2012 are listed under Highlights at the front of this report.

Each quarter during the year, a snapshot report is prepared for Council highlighting progress towards the key planned outcomes for the year. The final progress report for the year provides the basis for the detail in the 'Results' section of this report.

Risk Management and Internal Auditing

The Audit and Risk Committee advises Council on risk matters and monitors the management by the staff and peak bodies of operational risks.

In 2010-11 the following internal audit reviews were completed under the auspices of the Audit & Risk Committee:

- review of reporting requirements for EA Subsidiaries
- critical stage audits of the Management Information System (MIS) Renewal program.

The focus of audit work associated with the MIS renewal program is being directed to specific work packages to ensure compliance with Engineers Australia's functional requirements and to ensure robust internal control frameworks.

The annual review of the operational risk register was also completed. In 2010-11 a revised risk management cycle was introduced more attuned to Engineers Australia's business and reporting cycles. This year, the review also sought to better align the risk register with both the domains of the Strategic Plan 2010-2015 and the Operational Plan for 2011-12.

Engineers Australia's comprehensive quarterly performance reporting and 6-month budget review tracks, monitors and measures performance against both budget and strategic objectives. Strategic risk changes are monitored and addressed through these processes.

Staffing and Workplace Practices

The framework for work practices in Engineers Australia focuses on "People Development". We seek to provide a work environment where people can achieve their potential and deliver the desired outcomes for our members.

In addition to having attractive pay and conditions of service the organization also offers an Employee Assistance Program to assist staff with work and personal issues.

All staff are engaged under common law contracts and there is a strong emphasis on offering more flexible and innovative working arrangements. This has meant the organisation has been quite successful in attracting and retaining quality staff.

Staff are employed on a full time, part time, or casual basis. Full-time staff equivalents for the last five years are tabulated below.

Staffing at 30 June (rounded)	2007	2008	2009	2010	2011
National Office					
- Canberra	72	74	78	80	86
- outposted in Divisions	12	10	14	18	17
Division staff	51	54	49	50	52
Total	135	138	141	148	155
% staff female	64%	63%	64%	63%	64%
% executives female	38%	38%	44%	44%	40%

GOVERNANCE FRAMEWORK



Shown here with Acting Chief Executive Rupert Grayston are members of Engineers Australia's team of executive directors from national office and Division offices (April 2011).

From left to right

- Glenda Graham – Victoria Division
- Ian McEwan – Queensland Division
- Caroline Argent – South Australia Division
- Rupert Grayston – Acting Chief Executive
- Jamie Penrose – Communication and Marketing
- Bronwyn Russell – Northern Division
- Geoff Harper – Tasmania Division
- Dr David Robinson – Education and Assessment
- Helen Link – Newcastle Division
- Fiona Thorniley – Western Australia Division (acting)
- Steve Finlay – Sydney Division
- Michael Allen – Corporate Services

Absent

- Peter Taylor – Chief Executive
- John Anderson – Engineering Practice and CPD
- Leanne Hardwicke – International and National Policy
- Vesna Strika – Canberra Division

Changeover in Executive Staff

During the year, 5 executive positions changed over: Peter Taylor retired as Chief Executive, Deputy Chief Executive Rupert Grayston was appointed Acting Chief Executive without replacement, pending appointment of a new Chief Executive, Martin Dwyer left Engineers Australia and was replaced by John Anderson as Director Engineering Practice and CPD, Leanne Hardwicke transferred as Director Western Australia Division to replace Janice Lake on her retirement, and was herself replaced by the appointment of Brent Jackson as Director International and National Policy.

GOVERNANCE FRAMEWORK

CORPORATE SOCIAL RESPONSIBILITY

Since 2005-2006, our Annual Reports have been prepared so that members are able to judge the organisation's performance in accordance with the Global Reporting Initiative (GRI) Guidelines.

During 2011, the National Vice President for Corporate Social Responsibility (CSR) has overseen work to prepare a draft policy for Engineers Australia Council in this area. It is expected that, when adopted, the policy will provide an additional dimension to future Annual Reports.

The principles of CSR are core to the operations of Engineers Australia as a not-for-profit occupational association and to the engineering profession itself as reflected in:

- The Code of Ethics for members and Guidelines on Professional Conduct
- Engineers Australia's Sustainability Charter
- Sustainability guidelines for members of the engineering profession in their daily practice
- Engineers Australia's international commitments e.g. the Taipei Declaration
- The values and guiding principles of our Strategic Plan 2010-15
- Engineers Australia's ongoing commitment to public policy development e.g. infrastructure, future energy options and national well being.

Engineers Australia is a small-to-medium office based organisation. We are taking initiatives to improve further sustainability practices across our operations. Energy and paper use are reported at Strategic Domain 6.

STRATEGIC DOMAINS

FOR THE ADVANCEMENT OF ENGINEERING AND THE PROFESSIONAL DEVELOPMENT OF OUR MEMBERS

Our achievements during 2010-11 are reviewed in the following pages. They represent the first annual instalment against our latest Strategic Plan 2010-2015, comprising six Strategic Domains.

Performance rating

SD 1	engaging with the community	87%
SD 2	maintaining high standards for engineering knowledge and practice	81%
SD 3	providing advocacy for the profession	82%
SD 4	promoting the profession and membership benefits	78%
SD 5	influencing young Australians and others into engineering	83%
SD 6	ensuring an effective supporting organisation	84%
Overall		82%

Our overall self-rating of 82% is slightly up from last year. The great success of key activities such as the *Make it so* engagement campaign and our 2010 Australian Engineering Week programs contributed to our high rating for Domain 1, while the cessation of the new hybrid recruiting service lowered our result for Domain 4.

INCOME AND EXPENSES

The reports for each of our six Strategic Domains on the following pages include a summary table showing income derived and expenses incurred attributable to activities for each Domain for 2010-11. Results in successive years will provide simple comparisons from year to year as we proceed against the new five-year strategic plan.

The table below shows the total of income and expenses across all six Domains.

A translation of previous years' results from the former eight Key Objectives into the new six Domain structure is not available.

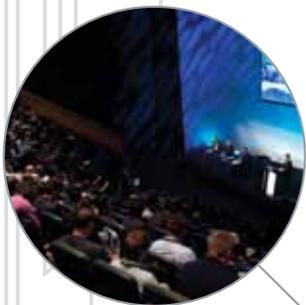
Income and Expenses

\$ million	2006-07	2007-08	2008-09	2009-10	2010-11
Expenses	25.442	27.225	29.619	31.859	32.998
Income	-10.000	-11.613	-13.686	-12.228	-12.997
Funded from member subs	15.442	15.610	15.933	19.631	20.001

STRATEGIC DOMAINS

- SD **1** Community Engagement
- SD **2** Body of Knowledge and Professional Development
- SD **3** Leadership and Influence
- SD **4** Recognition, Promotion and Membership
- SD **5** Education and Qualification
- SD **6** Internal Structure and Administration

- OUR SUBSIDIARY COMPANIES
- FROM OUR DIVISIONS
- FROM OUR COLLEGES
- SPECIAL INTEREST GROUPS
- OVERSEAS CHAPTERS
- TECHNICAL SOCIETIES
- RELATED GROUPS



COMMUNITY ENGAGEMENT

1

PROVIDE A FORUM FOR MEMBERS OF THE PROFESSION TO ENGAGE MORE DIRECTLY IN PARTNERSHIP WITH OUR COMMUNITIES ON ISSUES OF CONCERN TO THEM.

- Key Indicators**
- Promulgation of a framework for engagement
 - Degree of community engagement

New ways to engage the community

- **Make it so** – we continued to have considerable success with engaging the main stream media as part of the ongoing **Make it so** campaign with media coverage across a variety of channels estimated to have a total media circulation of over 9.5 million and with an estimated readership in excess of 25,000,000.
- The **Make it so** campaign was identified as a National Finalist in the 2010 Australian Marketing Institute Award for Excellence in the category of Internal Communication.

Engineering Week

- With excellent support from our many sponsors Australian Engineering Week in August 2010 was again a highly successful promotion of the engineering profession with the Australian community.
- Our Division office bearers and staff arranged a myriad of innovative events – some 170 overall – with involvement by eminent Australians, political leaders, kindred associations, teachers, students and the wider community – extending also outside metropolitan centres to regional areas.
- Many events attracted excellent media coverage, and were marked by record attendances.

Public Forums

- Engineers Australia launched the **Australian Infrastructure Report Card** via a televised address by the Chief Executive Peter Taylor at the National Press Club in Canberra in November 2010. This was the culmination of a program during 2010 to release report cards for all States and Territories.
- The profile and reputation of these report cards among governments and industry reflect our commitment to advancing the interests of engineering in the eyes of the community. Follow-on requests for presentations to other bodies from many of our Division office bearers continued through the year.
- A range of public forums were conducted in our Divisions during Australian Engineering Week and at other times, covering topics as diverse as transport, sea level rise, road safety and the general impact of technology on society.

Reconciliation Action Plan

- In collaboration with Reconciliation Australia, Engineers Australia continued development of its Reconciliation Action Plan during the year, towards its launch during August 2011.

Community partnerships

- Notwithstanding the challenges, we have taken some local initiatives toward our strategic objective to engage more directly with our communities. Examples were:
 - Canberra Division has defined a project to commemorate the engineering contribution to the development of Canberra for its centenary in 2013.
 - Support was offered to Emergency Management Queensland during the flood and cyclone disasters, and ongoing support was offered through the Queensland Reconstruction Authority.
 - Victoria Division Committee continued with its Community/ Industry Outreach program, hosted a musical evening with Melbourne Rotary, and formed a partnership with Neighbourhood Houses.
 - Western Australia Division worked with Rotary for volunteers for the Science and Engineering Challenge, and has implemented a community engagement project for 2011 **Year of Humanitarian Engineering**.
 - The Women in Engineering National Committee is participating in the Equality Rights Alliance housing security for women project.
 - Six public ceremonies were held in our Heritage Recognition Program.

Income and expenses

\$ Million	2010 - 11
Expenses	1.710
Income	-0.175
Funded from member subs	1.534

BODY OF KNOWLEDGE AND PROFESSIONAL DEVELOPMENT

2

PROVIDE A FORUM TO ADVANCE THE SCIENCE AND PRACTICE OF ENGINEERING TO THE HIGHEST STANDARDS.

- Key Indicators**
- Reputation for relevance and quality of our engineering body of knowledge
 - Incidence of members making voluntary contributions
 - Perceived professional development value as indicated by quantum of take-up
 - Ease of access for metropolitan, non-metropolitan and overseas members
 - Higher acceptance of the value of being Chartered

DEVELOPING AND DISSEMINATING OUR BODY OF KNOWLEDGE

CPD events cover a hugely diverse range of formats, from major international conferences, seminars and workshops, eminent speaker presentations, and individual technical meetings.

Events are delivered through a mix of formats, including nationally-coordinated programs, Division-based technical meetings, and can be offered through and in conjunction with Technical Societies and other like-minded professional bodies.

Major conferences

- Our program of major conferences marks a major contribution by our College-based groups and Special Interest Groups to the advancement of engineering for the benefit of our members and the profession generally.
- 19 national and international conferences were supported during the year, attracting some 6,400 delegates – 5 conferences with over 500 delegates each.
- The most prominent of the international conferences during the year was the 5th International Civil Engineering Conference (CECAR5), held in Australia for the first time, in conjunction with the Australasian Structural Engineering Conference (ASEC 2010). The combination of these Conferences, workshops and technical site visits produced a high quality three-day event, attracting a truly international audience of over 550 delegates in Sydney.
- In another major first for Australia, the 15th International Conference for Women Engineers and Scientists (ICWES15) was planned during 2010-11 and conducted in Adelaide in July 2011, with over 500 attendees from 30 countries.
- A highly successful three day Joint Technical Congress was held in Melbourne in December 2010, bringing together Engineers Australia, the Photonics Institute, the Australian Institute of Physics, and the Australian Optical Society. Some 800 delegates attended.
- Proceedings from all conferences hosted by Engineers Australia are passed for inclusion on the InforMIT technical database.

Eminent speaker tours and national seminars

- Leveraging off our major conferences and awards, and through other professional networks, we managed to engage Australian and international eminent speakers for nine tours across Australia, attracting nearly 5,000 registrations to attend.
- All speakers had their presentations videostreamed and made available on Engineers Australia's website.
- Our Eminent Speaker Program was supported by three generous sponsors.
- 18 national seminars were conducted in metropolitan centres, with a total 470 attendees.

Capturing intellectual value - technical publications

- The high value of the Australian dollar and higher royalties received from the collecting agencies enabled our library to take action to reduce the backlog of proceedings to be uploaded to the *Informit Engineering Collection* database. There are currently more than 34,000 full text papers available across 12 Engineers Australia journals, 324 Conference proceedings and 55 reports. Bibliographic database Engine now contains almost 42,000 papers.
- Our technical journals and conference proceedings are available to members as a member benefit via Resources and Library section of the website. In the last 12 months Engineers Australia members conducted close to 19,000 searches across all databases.
- Every year Engineers Australia's publications are becoming more visible to local and international users. The material is listed on EBSCO and Gale/Cengage Learning databases and also abstracted on Ei Compendex database.
- The *Informit Engineering Collection* is available at a majority of Australian Universities. International sites are in South Africa, New Zealand, Brazil and Indonesia. In addition to Google Scholar, the *Informit Engineering Collection* is exposing the metadata through the discovery services such as Trove (National Library of Australia), OCLC WorldCat, Summon (Serial Solution), Primo (ExLibris), and Ebsco.
- The strategies implemented in recent years continue attract more articles for technical journals. In 2010-11 we received 428 new submissions for the journals compared to 239 papers received in 2009-10. 14 issues of technical journals were published last year.
- The workload for our volunteer editors still remains very high.

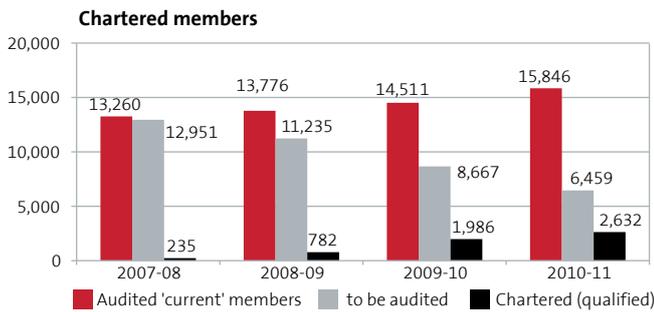
2 BODY OF KNOWLEDGE AND PROFESSIONAL DEVELOPMENT

CPD DELIVERY THROUGH DIVISIONS – 2010-11

Canberra	74 technical events, 2,636 attendees (+72% on 09-10).
Newcastle	66 technical events, 1,465 attendees (+16% on 09-10).
Northern	19 technical events, 384 attendees.
Queensland	Minimum 100 technical presentations, with average attendance 50.
South Australia	132 technical events, 3,646 attendees (+71% on 09-10).
Sydney	132 technical events, 10,700 attendees (+9% on 09-10).*
Tasmania	117 events notified to members (+30% on 09-10).
Victoria	Minimum 180 events in metropolitan Melbourne, and 70 regional events.
Western Australia	297 technical events, 10,171 attendees (-12% on 09-10).

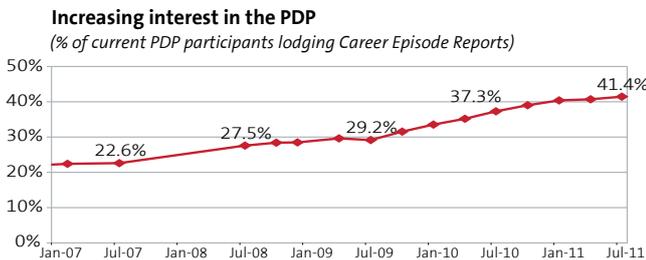
* not complete data for all regional groups

PROMOTING PDP AND MEMBERS BEING CHARTERED



At 30 June 2011, 15,846 members were regarded as Chartered (current). This represents 64% of all Chartered members.

- Engineers Australia offers a Professional Development Program (PDP) as a structured framework to support engineers towards becoming Chartered. Most participants are sponsored in their PDP by their employers who partner with Engineers Australia for this purpose.
- At 30 June 2011, there were 454 active PDP agreements with employing organisations, including many of Australia's leading employers of engineers.
- There were 6,990 engineers registered in the PDP. With nearly 2,900 engineers having submitted at least one Career Episode Report this financial year, the participation rate rose again this year to over 41% - see chart.

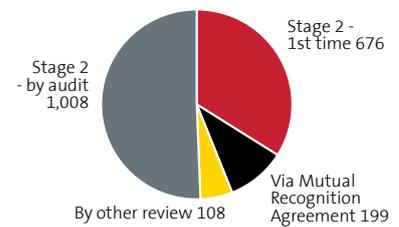


Maintaining industry liaison

- The National Industry Relationship Team comprises staff based (now) in all Divisions who develop relationships and enhance collaboration with engineering employers.
- 285 presentations were delivered to 4,500 senior engineers and graduates in this financial year. Key messages are the value of and the pathways to becoming Chartered, and how the competencies can assist in the mentoring process for early career engineers.
- 594 meetings were held with engineering employers promoting Engineers Australia's activities and assessment arrangements.

This chart provides a complete picture of the number of members assessed as Chartered (current) during 2010-11. Previous Annual Reports reported mainly 'Stage 2 - first time' awards.

Nearly 2,000 members attained 'current' Chartered in 2010 - 11



- During 2010-11, there was a continuing strong increase in the number of members becoming Chartered following Stage 2 competency assessment.
- Applications for Chartered assessments in Queensland have continued to be high due to RPEQ assessment requirements.

Currency of competence and registration

- Engineers Australia's policy on CPD is that Chartered members must keep records of their own professional development activities and submit to periodic audits. Any Chartered member should expect to be audited every five years.
- The audit process is an important and effective method of maintaining the integrity of Chartered membership and registration on our National Engineering Registers. An online eCPD Recording facility has been introduced as a service for members and to help streamline CPD auditing.
- It is intended to complete the first cycle of audits for all Chartered members by the end of 2012. 4,100 audit notices were issued during the year. Improved processes have been implemented to follow up outstanding audit responses.

eChartered

- Engineers Australia started development of an online system for Chartering Engineers, Technologists and Associates, to be launched during calendar 2012. It will equip us with a bespoke system specifically designed to make our Stage 2 assessments more cost effective and less arduous for members, while retaining necessary standards.
- The eChartered project will be one of the first to take advantage of the new capabilities being implemented with our complete MIS Renewal Program.

Chartered review

- A Special Committee of Council has been assessing the structures and strategies we have been using to encourage members to become Chartered, with a view to redefining the value proposition for members. The Committee is scheduled to report to Council during 2011, although this could be extended. The follow-on 'Credentials' phase of the *Make it so* campaign is dependent on the findings of this review.

2 BODY OF KNOWLEDGE AND PROFESSIONAL DEVELOPMENT

ENCOURAGING MEMBERS TO PURSUE ONGOING PROFESSIONAL DEVELOPMENT

Divisions

- Divisions have reported ongoing general promotion of CPD benefit to members, and a wide range of successful member networking events, including Fellows lunches, and Special Interest Group events.
- Particular initiatives and successes were reported in regard to overseas qualified engineers groups in Queensland, Victoria and WA Divisions, and in Sydney Division with Skillmax and Ultimo TAFE – 37 presentations to over 550 students to assist migrant engineers with CVs and interview skills.
- Some Divisions also reported on increased interest from members to nominate as expert panellists and for office bearer positions.

Learned society and special interest groups

- Detailed reports from all our College-based learned society groups and our 7 Special Interest Groups follow, at pages 64-80 and 81-84 respectively.
- College Boards have been contributing in support of the 2011 *Year of Humanitarian Engineering*, and in preparation for 2012 *Year of the Regional Engineering Team*.
- NCCOE reports updated climate change guidelines are nearing completion following an excellent workshop at the Coast to Coast conference August 2010; sustainability guidelines were scoped at a workshop in March 2011.

WORKING TO KEEP ETHICAL, COMPETENCE, AND PRACTICE STANDARDS UP TO DATE

Standards Committees

- Standards Australia implemented a new priority and merit based process for determining where limited funds and resources should be focused. The intent of the process is to ensure that the right standards are updated/created at the right time.
- Engineers Australia continued to provide a strong commitment to Standards Australia through its six Council nominations and two Board appointments, and through its direct representation on some 211 standards committees. We continue to be a leading contributor to Standards Australia’s committee processes.
- During the year the major challenge has been to support our members and to identify new members for new or changing committees.

Ethics and Discipline

- A revised Code of Ethics was approved by National Congress on 28 July 2010 following a major review led by the Commissioner for Ethics and Discipline.
- An online ethics awareness program has been developed and is being pilot tested prior to a launch to the membership in early 2012.

Rainfall and Runoff Project

- The Australian Rainfall and Runoff (ARR) Revision has progressed to a point where the majority of contracts are underway for the 21 research projects in the update program. The volunteer effort has been outstanding at \$2.07 million, well in excess of the target \$1.4 million.
- With the assistance of the Bureau of Meteorology, Department of Climate Change and Energy Efficiency and CSIRO, the ARR Steering Committee has adopted a Climate Change Strategy that outlines research necessary to define the impact of climate change on design rainfall, losses and temporal patterns. This strategy will be developed into a detailed research plan in the next Stage of the revision work.
- The ARR Technical Committee members were involved in the preparation of the Queensland Floods Science Engineering and Technology (SET) Panel report “Understanding Floods: Questions and Answers.”

Complaints against members

- Details of complaints against members reported by the Commissioner for Ethics and Discipline to Congress in November 2010 are included in the Governance section of this report at page 36.

Warren Centre

- During the 2010-2011 year the Warren Centre took the decision to establish an implementation project to take the Professional Performance, Innovation and Risk (PPIR) Protocol from concept to reality. The Protocol has been described as the missing ‘performance’ leg of a three legged chair which also comprises ‘ethics’ and ‘competency’. Both the ‘ethics’ and ‘competency’ legs are in place and covered by Engineers Australia activities (Code of Ethics, Chartered assessments for competency).
- Members of Engineers Australia participated in PPPIR project committees as well as some of the project working subcommittees (Education, Standards, Communications). Sponsorship by a number of private sector organisations has enabled the Warren Centre to progress this project. 2010-2011 was the formation year for the project with the work to be brought to a completion in 2011-2012.

Stage 3 Technical Competencies

- The Working Party addressing Stage 3 Technical Competencies presented its final report to Congress in November 2010, following a comprehensive consultation process.
- The Special Committee of Council reviewing Chartered is considering the implications of the Stage 3 competencies in its broader review.

Income and expenses

\$ Million	2010 - 11
Expenses	9,843
Income	-4,399
Funded from member subs	5,443

LEADERSHIP AND INFLUENCE

3

PROVIDE A RESPECTED VOICE FOR THE PROFESSION TO INFLUENCE LEADERS AND DECISION-MAKERS ON PUBLIC POLICY AND WIDER COMMUNITY ISSUES.

- Key Indicators**
- Reputation for valued advice and engagement
 - Incorporation of proposals into government policies and legislation
 - Regulation of the profession in more Australian jurisdictions
 - Progress with international mutual recognition agreements

CONTRIBUTING TO PUBLIC POLICY DEBATE AND INDUSTRY DECISION-MAKING

Advocacy and policy development

- A significant part of the value we provide to members arises from our ongoing advocacy activities at both national level and in each Division. Some examples of issues covered in Divisions are included at pages 55-63.
- We are committed to ensuring that the interests of members are promoted to parliamentarians and government decision makers. We maintained our commitment to keeping government informed of our activities and policy positions during the year with a range of meetings with key decision makers, and also supported this through a range of formal submissions to government inquiries and review processes.
- The views of Engineers Australia are held in high regard, and we are often approached to provide formal comment on key policy issues being considered by government.
- Engineers Australia regularly prepares formal reports and papers on issues topical to engineering. These provide a valuable resource to members and policy makers alike, and examine a range of issues affecting the engineering profession. All public policy documents are freely available for download on the Engineers Australia website.
- Among our policy activities, Engineers Australia often participates in collaborative projects and forums to enhance our professional and industry links.
- In December 2010, Engineers Australia jointly launched the Australian National Engineering Taskforce (ANET) 'Scoping our Future' skills shortage report. The Melbourne event was well attended and saw representation from members of professional and industry associations, academia, members of industry, and government representatives.
- We used our high profile public events in Divisions as a forum for orations by leading eminent Australians to contribute to public discourse on significant current issues.

Engaging with the general media

- A central component of our advocacy activities involves proactive engagement with the media. During the year we issued 25 national media releases, and enjoyed wide media coverage of significant policy developments.
- We ensure that members are kept informed of our activities through regular contributions to the Engineers Australia magazine, publication of web-based news items, and publishing items in subscriber electronic newsletters.
- In November 2010, the Chief Executive awarded the Engineers Australia Excellence in Journalism award to Penelope Debelle of *The Advertiser* for her article on the mathematics skills crisis in industry.

Completion of the 2010 Infrastructure Report Cards

- In November 2010, the Chief Executive launched the 2010 Australian Infrastructure Report Card at the National Press Club during a live national television broadcast on the ABC. The event was well-attended and generated significant media attention.
- The 2010 Infrastructure Report Card project was completed on time and under budget over two financial years. The State and Territory Report Cards attracted widespread media coverage in their respective jurisdictions. In line with our recommendations, infrastructure advisory/planning bodies were established in two states (NSW and Tasmania) following release of the report cards.
- The high quality of these Report Cards is a testament to the expertise of our members and staff. The Report Cards are developing a reputation as a trusted information source for decision makers across all levels of government, and we are rightly proud of the recognition they continue to receive.

2010 Year of Engineering Leadership

- Last year's Annual Report included a review of our **2010 Year of Engineering Leadership** program. We consider the year to have been a great success both nationally and in Divisions.
- The steering committee for 2010 YoEL identified five key elements of the lasting legacy for the year:
 - Create and be the **forum** where members of the engineering team come together to contribute to the debate on issues that matter.
 - Implement a **CEO's Dinner** where leading members of the profession come together to discuss issues affecting the profession and community.
 - **Change the language** within Engineers Australia. Ensure the word 'leadership' is included when talking about members of the engineering team. In addition, ensure the most prestigious awards within Engineers Australia include categories which require the demonstration of leadership.
 - **Use Ambassadors** to share their leadership stories with the profession and wider community.
 - Engineering Education Australia (EEA) to run the **Engineering Leadership Residential program** annually as a legacy of the Year.

Income and expenses

\$ Million	2010 - 11
Expenses	6.045
Income	-0.856
Funded from member subs	5.189

3 LEADERSHIP AND INFLUENCE

PROVIDING LEADERSHIP AND DIRECTION FOR THE PROFESSION

- The Governance section of this Annual Report provides a full accounting of the activities of the National Congress and the Council of Engineers Australia during 2010-11.
- Our National President and Chief Executive perform an important role in engagement with overseas organisations and supporting our overseas members. Our international members are served by chapters in Hong Kong, Malaysia, Singapore and the United Kingdom. During the year, our National President and Acting Chief Executive visited our Asian chapters, recognising the important contribution that overseas members play in raising our profile internationally.
- The **Presidents' Forum**, convened twice yearly by the National President, is an opportunity for Division Presidents to discuss key strategic issues with the National President and to share best practice ideas. The Presidents' Forum met in September 2010 and March 2011.
- Efforts continue to be made to attract members into office bearer roles and to improve their experience and ability to contribute. As part of an improved succession strategy, tenure for Division Committee members has been increased to two years in Victoria Division, and is being taken up in other Divisions.

WORKING TOWARD A NATIONAL REGULATORY FRAMEWORK

National Engineering Registration Board

- Engineers Australia established closer relationships with our key partners on NERB – Consult Australia, APESMA and IPWEA – through a Memorandum of Agreement, signed on 30 July 2010.
- A consultant was appointed to help develop and present the case for the regulation of engineers and to influence political leaders.
- A brochure on the case for registration and a proposed model framework was distributed to all members through the February 2011 edition of *Engineers Australia*.
- NERB received in principle support for the regulation of engineers from the WA Government in November 2010.
- NERB made a submission to the COAG Business Regulation and Competition Working Group in April 2011, and wrote to key Ministers in all States and Territories.
- An area of practice for Petroleum Engineers was established in cooperation with the Society of Petroleum Engineers (a USA-based international society).
- Our assessment of qualifications and competencies under the *Professional Engineers Act 2002 (QLD)* has continued satisfactorily, with significant capacity increase over 36 months of operation.
- The total number on the National Professional Engineers Register (NPER) passed 10,000 for the first time in June 2011.

ENGAGING WITH NATIONAL AND INTERNATIONAL COUNTERPARTS ON MATTERS OF MUTUAL INTEREST

National and international engagement

- Engineers Australia continues to be an active member of the World Federation of Engineering Organizations (WFEO) and the Federation of Engineering Institutions of Asia and the Pacific (FEIAP) and have nominated delegates to each of these forums.
- Our National President and Acting Chief Executive also attended the Conference of the ASEAN Federation of Engineering Organisations (CAFEO). CAFEO is an important forum that fosters cooperation and involvement with our partners in South East Asia.
- In August 2010 Engineers Australia signed the American Society of Civil Engineers (ASCE) 'Vision 2025' framework for development of civil engineering. Vision 2025 is an aspirational target for the civil engineering profession into the 21st century and has been supported by numerous professional bodies, educational institutions, governmental organisations and industry bodies around the world.

Engineers Without Borders

- The relationship between Engineers Australia and Engineers Without Borders continued to evolve. The major activity during the year was preparing for joint involvement with 2011 the *Year of Humanitarian Engineering*.
- We share with Engineers Without Borders the objectives of facilitating the work of Australian engineers to alleviate poverty and disadvantage through the application of engineering knowledge and skills and the use of appropriate technology.

Mutual recognition agreements

- Engineers Australia supports the mobility of our members through recognition agreements with our overseas counterparts. In November 2010 Engineers Australia signed a mutual recognition agreement of chartered members with the Chartered Institution of Building Services Engineers (CIBSE), the international professional body for the building services profession. A mutual recognition agreement of chartered members was also signed with the Institution of Engineering and Technology (United Kingdom) on 30 September 2010.

International accords

- Australia, represented by Engineers Australia, was admitted to provisional membership of the Dublin Accord (for the occupational category of Engineering Associate) at the June 2011 meetings of the International Engineering Alliance (IEA) held in Chinese Taipei.
- Emeritus Professor Robin King, Chair of Engineers Australia's Accreditation Board, was elected Chair of the Sydney Accord at the Taipei meetings.
- Australia was approved to continue operating an EMF International Register of Professional Engineers and an APEC Register for a further six years.
- Australia was selected to host the next IEA Workshops, to be held in Sydney in June 2012.

RECOGNITION, PROMOTION AND MEMBERSHIP

4

INFORM OUR MEMBERS AND OUR STAKEHOLDERS ABOUT THE CONTRIBUTION OF THE PROFESSION IN WAYS THAT PROMOTE ITS IMAGE AND STANDING.

- Key Indicators**
- Enhanced perceptions and understanding of the profession in the wider community
 - Admissions and retention of our diversity of members

PROMOTING THE ENGINEERING PROFESSION

- We use a range of strategies to promote the image and standing of the engineering profession.
- Our 2010 *Year of Engineering Leadership* and 2011 *Year of Humanitarian Engineering* campaigns are reported at pages 12-14.
- The National Committee of our new Regional Special Interest Group has taken the role of Steering Committee for 2012 the *Year of the Regional Engineering Team*.
- Our Special Interest Groups are particularly keen to take advantage of our major promotions to demonstrate the contributions of women in engineering, younger engineers, our engineering leaders, Technologists and Associates, engineers practising in regional and remote locations, as well as the value of our engineering heritage.
- Steps such as media awareness seminars are provided to assist our office bearers at both national and Division level be better-equipped as spokespersons for the profession.

PROMOTING THE CONTRIBUTION OF ENGINEERING EXCELLENCE

- Australian Engineering Excellence Awards – the 2010 event was conducted in November with the attendance of Her Excellency, The Governor General of Australia, Ms Quentin Bryce in attendance. As patron of Engineers Australia, the Governor General witnessed the achievements of 44 finalists in front of a sell-out audience at the Great Hall of Parliament House.
- College and Division reports make reference to awards to individual members who are recognised for their contribution to the profession in many ways, both by Engineers Australia and in the community generally. Details on individual awards can be found on relevant pages on our website.

Excellence Awards - 2010-11

	Date	Entries	Attendees
Northern	22-Jul-10	8	310
Newcastle	10-Sep-10	23	350
South Australia	10-Sep-10	23	350
Sydney	17-Sep-10	91	595
Western Australia	18-Sep-10	32	600
Queensland	8-Oct-10	40	600
National	24-Nov-10	44	466
Total		261	3271

Events in Canberra, Tasmania and Victoria Divisions were scheduled for July and September 2011.

TOTAL MEMBERSHIP

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr last year
Graduates	14,521	14,549	14,357	14,222	14,130	-0.6%
Members	32,607	33,710	35,360	37,184	38,683	4.0%
Fellows (and others)	5,529	5,487	5,463	5,548	5,619	1.3%
Non-student members	52,657	53,746	55,180	56,954	58,432	2.6%
Student members	30,584	31,955	33,380	36,104	38,874	7.7%
Total - at 30 June	83,241	85,701	88,560	93,058	97,306	4.6%

FEMALE MEMBERSHIP

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr last year
Graduates	1,989	1,983	1,983	1,959	1,936	-1.2%
Members	1,423	1,640	1,886	2,089	2,317	10.9%
Fellows (and others)	94	98	97	107	132	23.4%
Sub-Total	3,506	3,721	3,946	4,155	4,385	5.5%
Student members	4,754	5,023	5,200	5,745	6,256	8.9%
Total - at 30 June	8,260	8,744	9,146	9,900	10,641	7.5%

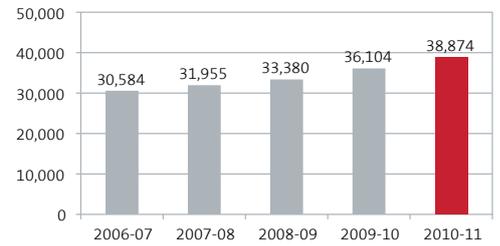
4 RECOGNITION, PROMOTION AND MEMBERSHIP

PROMOTING THE BENEFITS OF MEMBERSHIP

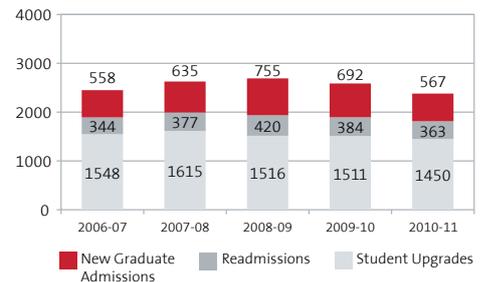
- Through national promotions and Division-based membership strategies, we aim to convince non-member engineers of the benefits of membership, and to ensure we respond to the diverse interests of our existing members.
- Total membership grew 4.6% to 97,306 during 2010-11. On recent trends, we should finish 2011-12 with just over 100,000 members for the first time.
- In recent years, membership growth in non-student grades in Queensland and WA Divisions has sustained our overall growth, by large margins.
- Female membership exceeded 10,000 for the first time. The number of female Fellows grew 33%.
- Technologist and Associate membership levels remain below 2% and 6% of total membership respectively.
- Admissions to Member grade remain at a new high level around 3,500 – even if a little down on last year.
- Admissions to Graduate grade remain a challenge. Results in 2010-11 were the lowest for the last five years.
- Nevertheless, the percentage of non-student members aged 35 and under continues to increase towards 30%.
- In 2010, a renewed focus on members in arrears secured in excess of \$1.2million in potentially lost revenue. This was bolstered in 2011 by an innovative membership renewals program with our affinity partner American Express, securing an estimated \$2million in subscription revenue by the end of the fiscal year.
- **engteam.com.au** – after launching the Engineers Australia Recruitment Service last year with considerable enthusiasm from potential candidates and recruiters alike, some 3,300 candidates subscribed to the service, but the business model struggled throughout the year to match candidates with positions. Despite this strong level of interest suitable candidates were not in sufficient supply and the service was terminated in the later part of calendar year 2011.
- Over 1,000 queries were taken by our careers centre, including for job searching, resume checking, career discussions, and helping university students find industrial training opportunities. Our careers coaching session is becoming more popular as experienced members (7-10 years) consider other engineering career options.

Income and expenses	
\$ Million	2010 - 11
Expenses	5.650
Income	-2.068
Funded from member subs	3.583

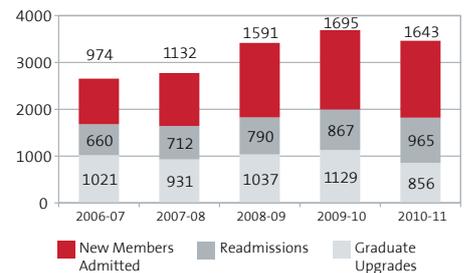
Student Membership



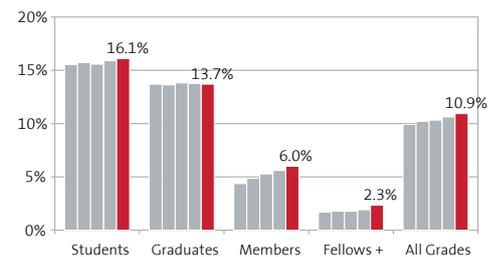
Admissions of new Graduate members



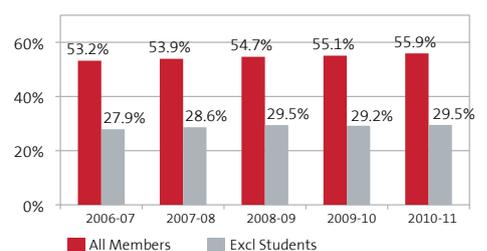
Admissions to full Member grade



Female share of membership - last five years



Percentage members 35 years and younger



EDUCATION AND QUALIFICATION

5

PROMOTE ENGINEERING AS AN ATTRACTIVE CAREER OPTION FOR YOUNG AUSTRALIANS OF ALL BACKGROUNDS, AND FOR OTHERS SEEKING TO PRACTISE AS ENGINEERS.

- Key Indicators**
- Enrolments in tertiary engineering studies
 - Numbers seeking to practise engineering – through graduation, assessment, and articulation

INCREASING AWARENESS OF ENGINEERING AS A CAREER AND INFLUENCING SCHOOL STUDENTS

Our Division members and staff support a wide range of successful outreach activities, both in terms of student competitions and information sessions for parents and teachers, to encourage interest among students to pursue enabling studies in science and mathematics.

Primary school students

- The online forum introduced with **EngQuest 2010** proved highly successful as a means of engaging the profession at a community level and with primary school students. With support from 152 volunteer members and staff in Divisions, 41,500 students were enrolled with 910 teacher registrations – an all-time high.
- **EngQuest 2011** is the 10th iteration of the program, and was launched in February. All activities link to the new National Curriculum. The focus on natural disasters in the **Year of Humanitarian Engineering** is proving to be extremely successful and strategically important in terms of bringing the engineering team closer to the wider community and primary school student base. This year's EngQuest is expected to once again surpass the previous year in terms of participation numbers.
- Northern Division secured a grant from Shell of \$127k over 3 years for extension of the SMART programs to Darwin, regional NT and island communities.

Secondary level programs

- Divisions rate highly results they see in the annual **Science and Engineering Challenge** and other secondary-level programs, including provision of careers information.
- WA Division considers their award for excellence in teaching a highlight of their 2010 schools activities.
- Sydney Division reports 100% takeup of both summer and autumn engineering schools, with excellent feedback for both.
- 'GirlTalk' CDs made available by the Women in Engineering National Committee are used as a means of raising awareness among girls of career opportunities in engineering at expos and in schools and colleges.

Career preference campaign

- A follow-on phase of **Make it so** – the career preference campaign – has yet to be commenced.

ENCOURAGING EDUCATION PROVIDERS TO OFFER RELEVANT ENGINEERING COURSES

Attracting young Australians to enrol in engineering studies

- There has been increasing interest in recent years among young Australians to enrol in undergraduate engineering studies, as the chart shows. The data is the latest available at the time of report preparation.
- Female numbers are increasing but remain at a stubborn low around 15% of all enrolments.
- With regard to course completions over the last decade, the 2nd chart shows that nearly all the growth in completions of engineering courses – undergraduate and higher levels – was from overseas students.

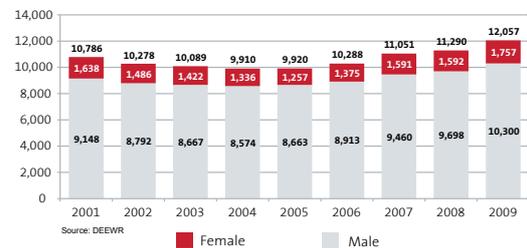
Upgrading undergraduate curricula

- Following a comprehensive consultation process led by Engineers Australia's Accreditation Centre (based in Melbourne), revised Australian Engineering Stage 1 Competency Standards for all three occupational categories were approved by Council in February 2011. The Standards were formally presented to Deans of Engineering at the April 2011 meeting of the Australian Council of Engineering Deans.
- Sustainable engineering practice has been significantly strengthened in the knowledge and skill base and application ability segments of the standard.
- The Australian Council of Engineering Deans is sponsoring a series of eight national workshops to launch the revised Australian Engineering Stage 1 Competency Standards. The workshops are being delivered in conjunction with the Australasian Association for Engineering Education.

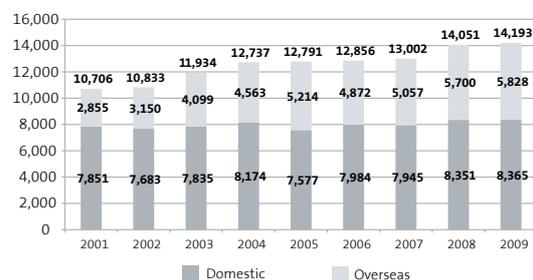
Engaging with the tertiary sector

- Divisions and College-based groups undertook a range of activities to sustain good relations with engineering faculties and industry supporters through forums with engineering deans, technical meetings, and invitations to our own education committees.

Bachelors Commencements - Domestic Students
Engineering and related technologies



Course completions in engineering and related technology - all levels



5 EDUCATION AND QUALIFICATION

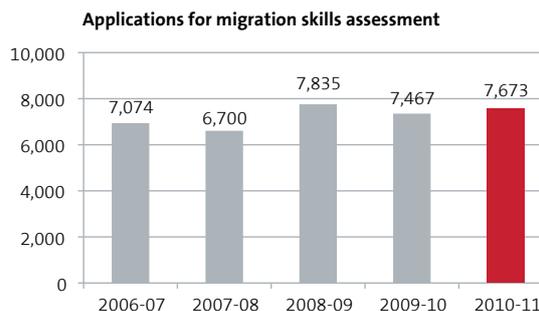
ENGAGING WITH STUDENTS TO PROMOTE THEIR PROFESSIONAL COMMITMENT

- College-based groups and our Divisions provide a range of competitions, awards and prizes for tertiary engineering students as a way of encouraging their interest in the profession and recognising academic excellence, practical skill, and teamwork in creating engineered solutions. Many of these activities are supported by industry in various ways.
- Results for most such activities are available on the relevant pages of the Engineers Australia website.

PROVIDING PATHWAYS FOR OTHER QUALIFIED ENGINEERS TO BE RECOGNISED TO PRACTISE

Our migration skills assessment service

- During 2010-11, our Migration Skills Assessment (MSA) unit received a slightly lower than expected number of applications from persons with engineering qualifications wishing to enter Australia. Applications fell away in the latter quarter of the year to total 7,673, albeit nearly 4% higher than last year.
- Nevertheless, the rate of application remains historically high resulting in longer than desired turnaround times for processing of assessment applications - now around 14 weeks. Demonstrably urgent cases are still handled expeditiously.
- Apart from international students undertaking Bachelor degree studies in Australia, the major source countries for applications for assessment from migrants continue to be India, Iran, UK, China and South Africa.
- Several presentations were made to the Migration Institute of Australia - including at their Annual Conference - over the course of the year, and these always seem to be very popular and well-attended. The assessment service offered by Engineers Australia continues to be very well regarded amongst Migration Agents and their clients, and we maintain an extremely high reputation in all quarters.
- The MSA unit continues to engage effectively with key stakeholders such as the Immigration Department and the Migration Institute of Australia. The annual performance assessment by Government has now been discontinued as a result of a continuing high level of confidence in our processes.
- Engineering Education Australia has continued to deliver the Commonwealth Government's authorized 'Professional Year' program for skilled graduate-temporary visa migrants.
- 20 requests were received for a Preliminary (informal) Review of assessment outcomes. None of these proceeded to formal review.



Support for overseas qualified engineers

- Several Divisions have reported on successful recent programs to engage specifically with overseas qualified engineers, both in terms of initiatives to enhance their skills in gaining employment, and in terms of CPD programs and networking events in response to their specific interests.

Eligibility for membership (Stage 1 competency)

- Engineers Australia provides a process of assessment of eligibility for membership for applicants whose qualifications are not otherwise accredited or recognised. During the year our assessors received and processed 380 applications for Stage 1 Competency Assessment.

Income and expenses

\$ Million	2010 - 11
Expenses	2.926
Income	-3.512
Surplus Income	0.586

INTERNAL STRUCTURE AND ADMINISTRATION

6

ENSURE THAT OUR MEMBERS AND OUR STAFF HAVE THE BEST POSSIBLE ORGANISATION, STRUCTURES AND SUPPORT FOR THEM TO WORK TOGETHER TO ACHIEVE OUR VISION.

- Key Indicators**
- Incidence of use of our online services
 - Increased interest among members to take up office bearer roles
 - Unity of purpose between members and staff

PROVIDING MODERN COMMUNICATION CHANNELS AND KNOWLEDGE MANAGEMENT TECHNIQUES

MIS Renewal Program

- In order to better communicate with our members, and to understand and meet their requirements better, we are making a substantial investment in our IT systems. With a focus on introducing commercial off-the-shelf products supported by a flexible and robust architecture we should see a substantial improvement in our operations and how our members engage with us. This year saw the establishment of a project office and team with substantial milestones achieved around technology selection and implementation has now commenced.

Providing online services for members

- The corporate website continues to grow month on month and by the end of the reporting period traffic was exceeding 100,000 unique visitors per month. Social media channels such as Facebook and Linked-in were growing organically amongst the membership.
- As a testament to the quality of our online services team, the online version of Engineers Australia's 2009-2010 Annual Report won the 2011 Australasian Reporting Award for online reports in the not-for-profit category.
- Some Divisions have revamped their communications with members with more effective use of email newsletters and event notifications.

PROVIDING AN EFFECTIVE GOVERNANCE FRAMEWORK

Updating our Charter and By-laws

- The 2006 Supplemental Royal Charter and By-laws were the result of multiple amendments over a history of 73 years.
- At a special meeting on 27 and 28 July 2010, Engineers Australia's National Congress finalised a new Royal Charter and By-laws and resolved to take the matter to a general ballot of Engineers Australia's corporate membership.
- The prime objective of Congress in the review of the Royal Charter and By-laws was to create a more functional governing document through a complete rewrite. The new document removes legal flaws and ambiguities, and provides a clearer, plain-language document that will better reflect and serve the organisation.
- 33% (37,908) of eligible members participated in the Ballot, with 63% voting 'YES' and 37% voting 'NO'.
- As this report was being prepared, advice was received that the Governor General has given assent and the new Royal Charter and By-laws came into effect on 26 September 2011.
- A program of review of all Regulations and Council policies to align with the new constitution will now be undertaken.

Improved support for office bearer elections

- Division office bearer elections are held annually for vacant positions on National Congress, Division Committees and College Boards.
- The election process is now coordinated nationally. Voting is managed by an external service provider and the staff Director in each Division acts as Returning Officer. In 2010, 121 vacant positions were advertised across Engineers Australia's 9 Division offices. Nominations were received and elections held in 5 of the 9 Divisions for a total of 45 of the vacant positions.
- While there is enthusiasm for serving on National Congress and Division Committees, there is a lower level of interest in serving on College Boards.
- Election results are announced at the Division annual meetings and published in the Division newsletters.

Turnover of staff executives

- Six out of 16 executive staff positions were affected by turnover during 2010-11. The Acting Chief Executive has commended the efforts of all staff in working with office bearers and sustaining focus on service to members in such circumstances.

Staffing at 30 June (rounded)	2007	2008	2009	2010	2011
National Office - Canberra	72	74	78	80	86
- outposted in Divisions	12	10	14	18	17
Division staff	51	54	49	50	52
Total	135	138	141	148	155
% staff female	64%	63%	64%	63%	64%
% executives female	38%	38%	44%	44%	40%

6 INTERNAL STRUCTURE AND ADMINISTRATION

EFFICIENT, EFFECTIVE AND RESPONSIBLE OPERATIONS

Corporate management

- Council has direct oversight of the regular processes for preparing our long-term financial plan, operational plan, risk analysis, and budget each year, and for monitoring progress.
- Our Annual Report for 2009-2010 was presented at the AGM in November 2010. Engineers Australia group consolidated financial report was presented again without qualification by our auditors.

Responding to member expectations

- Initiatives such as the MIS Renewal Program, eChartered and eCPD reflect our ongoing aim to provide more effective and efficient services for members.
- Divisions continue to succeed in meeting or exceeding their annual income targets, and some steps have been taken to increase the use of part-time staff, particularly in the smaller Division offices.

Sustainable office practices

- The internal operations of Engineers Australia are typical of small-to-medium office-based organisations in Australia.
- We estimate the carbon impact of our energy usage at 1,438t CO₂-e. National Office paper usage is estimated at 1,450 reams.
- We are taking steps to improve sustainability practices across our operations.
- Under the auspices of Council, a draft policy on our approach to Corporate Social Responsibility is being prepared. In regard to our office operations, this is expected to have implications for our practices and our approach to reporting in our Annual Reports.

Income and expenses

\$ Million	2010 - 11
Expenses	6.824
Income	-1.987
Funded from member subs	4.837



Engineers Australia staff in National Office adopted the ACT Eden Monaro Cancer Support Group as their chosen charity for 2010 - 11. Pictured here at the celebrations marking the 10th Year of EngQuest are Sue and Mark Green of the Cancer Support Group and Peter Taylor and Sara Ross (EngQuest Manager) of Engineers Australia.

OUR SUBSIDIARY COMPANIES

ENGINEERS MEDIA

www.engineersmedia.com.au

Highlights

The highlights for the 2010-11 year have been the 10.9% growth in the engineering magazine advertising market, compared to the sluggish trading conditions last year and the launch of our online bimonthly magazine *Sustainable Engineering Australia*.

Publications

The annual circulation of *Engineers Australia* magazine reached 649,000 copies, which was 4% higher than last year. *Infrastructure Australia* magazine was circulated to all members in the April mailing, while *Water Engineering Australia*, *Electrical News*, *Engineering World*, *Engineers Australia Journals*, *eMonitor*, *CEA Online*, *eNews* and *Student News* were circulated by member preferences.

We also exhibited at a number of engineering exhibitions and conferences during the year, which helped increase the exposure of our publications to the wider engineering community.

Magazines

Engineers Australia magazine continued to supply members with interesting and varied engineering news. The June issue included the eighth listing of Australia's Top 100 Most Influential Engineers. The feature showcased the wide range of areas where engineers are in influential positions. The charge to supply *Engineers Australia* magazine to members was \$1.91 (2010 \$1.85) per copy.

Sustainable Engineering Australia was launched in February 2011. The magazine contains twitter feeds, podcasts and picture slideshows and is growing its readership via Facebook and Twitter followers.

<http://sustainabilityengineering.realviewtechnologies.com>

Bookshop

Despite the turmoil in the book trade, EA Books increased sales to \$0.6 million, which was 12% up on the previous year. Online bookshop sales accounted for 66% (59% 2010) of all sales. Our publishing focus next year is to publish more technical guidelines and practice notes for members.

www.eabooks.com.au

Publishing Scholarship

The company awarded its 5th Annual Media Scholarship to Anna Watanabe, a communication and journalism student at UTS. The aim of this award is to raise the profile of technical writing at UTS.

Financial

For the financial year 2010-11 the company recorded a net surplus of \$99,275 compared to a deficit of \$77,713 last year. Total revenue increased by 8.7% to \$4.5 million, while total expenses increased by 4.4% to \$4.4 million.

Bruce Roff

General Manager

ENGINEERING EDUCATION AUSTRALIA

www.eeaust.com.au

The Business

2010-11 was quite a challenging year as client requirements for professional development changed post the GFC. We found ourselves working more closely with organizations to plan, develop and deliver customized programs.

We maintained our ISO certification and the focus for 2011-12 will be on developing business processes for maintaining our client data thereby providing us with better capacity to segment client information to enable more targeted messages.

Products and Services

During the year 3,700 people participated in our public and in house courses. The public courses have been reduced in number with a focus on core areas such as Project Management, Contract Management and Writing Skills. Technical programs continue to be very successful and these will be increasing into 2011-12.

With 330 registrations, the *Professional Year Program* slowed in 2010-11 with changes to skilled migration policies creating uncertainty among engineering graduates.

With 140 participants, the *Graduate Program* continues to grow as it achieves positive outcomes for graduate engineers. The program is a finalist in the Engineering Excellence Awards in Sydney Division, along with the delivery partner Transgrid.

The *Experienced Engineers Program* has been very successful, with 140 participants, and will be redesigned with added focus for engineering managers for next year.

We developed and delivered the inaugural *Engineering Leadership Residential* to 34 participants in 2010. We will deliver to 42 in 2011, and continue the program annually.

36% of course participants were Engineers Australia members (43% last year).

EEA's 21st Birthday

In 2011 Engineering Education Australia celebrates 21 years of delivering CPD for the engineering profession. In the last 10 years, we have supported 25,000 engineers and engineering team members.

In one area alone, Project Management we have delivered CPD to 712 participants in 2010, and 109 participants in our online Diploma since January.

Financial

The end of June financial result is a surplus of \$182,000, compared to a surplus of \$219,000 last year. We continued our investment in technology and business systems and have established a good platform for the next few years.

Ann Ellis

General Manager

FROM OUR GROUPS - DIVISIONS

STRATEGIC DOMAINS	CANBERRA DIVISION
1. Community Engagement <ul style="list-style-type: none"> - Seeking new forms of engagement - Australian Engineering Week 	<ul style="list-style-type: none"> • We held successful events during Australian Engineering week 2010, and staged two public forums as part of this – with around 80 attendees at each session. • A sub-committee has defined a project to commemorate the engineering contribution to the development of Canberra as a part of the Canberra Centenary in 2013. The scope of the project will be developed over the next 12-18 months.
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> - Promoting CPD and networking events - Promoting the Professional Development Program - Promoting being Chartered - Supporting diverse member interests - Supporting engineering standards and ethical awareness 	<ul style="list-style-type: none"> • We achieved a significant increase in the number of technical events hosted and total number of attendees – 74 events were held, with total attendance 2,636. This number is an increase of around 1,000 over last financial year. • Steps were taken to support the rejuvenation of our Mechanical branch and they are delivering a successful and diverse technical program. • The ACT Infrastructure Report Card was launched successfully at a Fellows' Lunch. • The Young Engineers Generation Exchange lunch was very successful with 128 attendees, including student and lecturer representation from all tertiary institutions. • 22 Chartered interviews were held.
3. Leadership and Influence <ul style="list-style-type: none"> - Engagement with Governments and the media - Professional and industry links - Regulatory framework - Providing Division leadership and governance 	<ul style="list-style-type: none"> • Canberra Division continued to have Division representation on a number of government committees including the Chief Minister's Industry Forum and the government's Quality of Building Forum. • The Division also responded to requests for submissions from the ACT government into "carbon footprint" and "DV301". • Our Butters Oration presenters were featured on the front page of the Canberra Times, and our CELM Leadership Presentation was given by the Hon. Malcolm Turnbull MP in June. • Media hits – several stories were covered by radio and newspaper.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> - Public recognition of achievements - Members promoting the profession - Membership initiatives 	<ul style="list-style-type: none"> • 12 new Fellows were presented with certificates at various events. • A formal launch for Year of Humanitarian Engineering was held, and a number of events have been badged under this banner. • Our 2011 Excellence Awards were launched in April and attracted 18 initial registrations. • Our Young Engineer of the Year was presented with her award at the CELM Leadership Presentation in June.
5. Education and Qualification <ul style="list-style-type: none"> - Engineering competitions - Promoting engineering on campus - Engaging with academia - Assisting overseas qualified engineers 	<ul style="list-style-type: none"> • Engineering Games was held in AEW with around 300 students participating. • Young Engineers' and Women in Engineering representatives spoke at a number of career sessions at various secondary colleges. • Young Engineers Canberra conducted welcome events at ANU, CIT and ADFA, resulting in an increase in the number of new student members. • Student prizes were presented at ADFA, ANU and CIT. • CELM held a successful networking event for migrant engineers.
6. Internal Structure and Administration <ul style="list-style-type: none"> - Keeping members informed - Good management 	<ul style="list-style-type: none"> • Four printed newsletters and two electronic versions were produced. • We refined our electronic advices to members about all technical events advertised on the website, listed in the printed newsletter and send out by e-mail as event reminders to members. A brief weekly overview of "what's on" is also sent on a Monday morning if there is more than one event being held in the week. • An additional permanent part-time staff member was engaged to cope with the ever growing workload in the Division.

Membership - CANBERRA DIVISION

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr last yr
Graduates	447	462	445	453	444	-2.0%
Members	979	1,033	1,087	1,120	1,126	0.5%
Fellows (and others)	208	208	211	213	214	0.5%
Sub-total	1,634	1,703	1,743	1,786	1,784	-0.1%
Students	583	560	584	594	675	13.6%
Total - at 30 June	2,217	2,263	2,327	2,380	2,459	3.3%

Division Committee – at 30 June 2011

Jennifer Murray MIEAust CPEng - <i>President, Congress Delegate</i>	Ben Foley MIEAust
Doug Mitchell MIEAust CPEng - <i>Deputy President</i>	Simba Kippaya MIEAust CPEng
Denton Bocking FIEAust CPEng - <i>Past President</i>	Kelly Lance MIEAust CPEng
Andrew Montgomery FIEAust CPEng - <i>Vice President</i>	Andrew McLarty TMIEAust
Tom Brimson FIEAust CPEng - <i>Congress Delegate</i>	Thileepan Vettivel MIEAust CPEng

DIVISIONS

STRATEGIC DOMAINS	NEWCASTLE DIVISION
1. Community Engagement <ul style="list-style-type: none"> – Seeking new forms of engagement – Australian Engineering Week 	<ul style="list-style-type: none"> • Engineering Week was a great success and included the Career Advisors Day, Discover Engineering both regionally and locally and the CELM CEO Breakfast. The Engineering Games which are part of Engineering Week were held in November with over 100 students participating in the Straw Tower Competition. Excellent support from our sponsors – Aurecon, EnergyAustralia & GHD.
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> – Promoting CPD and networking events – Promoting the Professional Development Program – Promoting being Chartered – Supporting diverse member interests – Supporting engineering standards and ethical awareness 	<ul style="list-style-type: none"> • There has been an increase in the number of quality presentations hosted by the various branches and groups. Our new assessor has seen an increase in PDP presentations, Chartered workshops, and Professional Interviews. • A total of 66 presentations, 1465 attendees and 1634 CPD hours were recorded for the year. • WiE held a number of fantastic evenings for our female members resulting in growth within their committee. • Eminent Speaker presentations were arranged for the Regional Groups. • A Fellows' Lunch was held in October with guest speaker Craig Baumann. • The Young Engineers Formal Dinner was another successful evening with 6 sponsors and approximately 100 guests. • Planning commenced on the 2011 Regional Convention to be held in Armidale in September 2011.
3. Leadership and Influence <ul style="list-style-type: none"> – Engagement with Governments and the media – Professional and industry links – Regulatory framework – Providing Division leadership and governance 	<ul style="list-style-type: none"> • The NSW Infrastructure Report Card was launched in Newcastle in July 2010 with high profile local industry leaders and politicians in attendance. Great support was received from members within the Division taking part on the panels. • Media relations remained strong throughout the year with good coverage through supplements for Engineering Week and the Excellence Awards. • The National President and the Division Executive toured Regional Groups in late July 2010.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> – Public recognition of achievements – Members promoting the profession – Membership initiatives 	<ul style="list-style-type: none"> • The Engineering Excellence awards were the social event of the year for Newcastle Division, with record numbers of entrants, sponsors and attendees for the event: close to 350 attendees, 11 sponsors and 23 entrants (resulting in 20 finalists). • Two Engineers Australia Medals were presented during the awards. • Two distinguished awards were presented: one member of the Division received the prestigious Peter Nicol Russell Memorial Medal, and another was designated an Honorary Fellow of Engineers Australia.
5. Education and Qualification <ul style="list-style-type: none"> – Engineering competitions – Promoting engineering on campus – Engaging with academia – Assisting overseas qualified engineers 	<ul style="list-style-type: none"> • School student activities continued throughout the Division with Discover Engineering, the Innovations Games, Engineering Games, Engquest and the Science & Engineering Challenge. • On campus recruitment activities such as BBQs continue to increase student membership. • University prizes continue to be funded through the Division. • The Division continues to publish the Engineering Vocation Handbook which is a great support to students.
6. Internal Structure and Administration <ul style="list-style-type: none"> – Keeping members informed – Good management 	<ul style="list-style-type: none"> • The Division has seen an increase in sponsorship levels as well as a strengthening of current partnerships with industry. • An excellent team of staff members endeavour to provide great support to the members and branches through exceptional service. • Growth in external room hire continues to assist income streams.

Membership - NEWCASTLE DIVISION

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr last yr
Graduates	675	639	580	553	565	2.2%
Members	1,324	1,336	1,443	1,527	1,576	3.2%
Fellows (and others)	255	250	246	236	239	1.3%
Sub-total	2,254	2,225	2,269	2,316	2,380	2.8%
Students	1,350	1,284	1,284	1,260	1,284	1.9%
Total - at 30 June	3,604	3,509	3,553	3,576	3,664	2.5%

Division Committee – at 30 June 2011

Paul Reynolds MIEAust - *President, Congress Delegate*

Dr Ron Banerjee FIEAust CPEng - *Vice President*

Barry Finlay FIEAust CPEng - *Past President, Congress Delegate*

Mervyn Lindsay FIEAust CPEng - *National President*

Nicholas Bates MIEAust

Karlie Collis MIEAust

Prof Mark Jones CEng FIMechE FIEAust CPEng

Brian Marsden OMIEAust MEAA

David Martinek TMIEAust CengT PSM

David Sparkes FIEAust CPEng

Murray Thompson MIEAust

Chris Turnbull FIEAust

Julie Wharton MIEAust CPEng

DIVISIONS

STRATEGIC DOMAINS	NORTHERN DIVISION
1. Community Engagement <ul style="list-style-type: none"> Seeking new forms of engagement Australian Engineering Week 	<ul style="list-style-type: none"> The Division promoted the <i>Make it so</i> national campaign through member newsletters. The NT Minister for Lands and Planning and Construction and Infrastructure launched our 2010 Engineering Week at Parliament House, with over 80 attendees. Notable events during the week were our inaugural Engineering Week Heritage Bus Tour & BBQ, which was well attended, and we hosted the Sunchase Solar Car Challenge in Darwin.
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> Promoting CPD and networking events Promoting the Professional Development Program Promoting being Chartered Supporting diverse member interests Supporting engineering standards and ethical awareness 	<ul style="list-style-type: none"> The Division conducted regular CPD, technical seminars, and site visits for members (24 events) and hosted a range of eminent speakers. Despite being a small Division, member interests are represented across several College Boards and national committees, across all national Special Interest Groups, and in our principal regional centres Alice Springs, Jabiru, and Gove. The profile of the Women in Engineering group has lifted since Nerida Beard was appointed to the committee. We are now seeing Chartered completion rates increase since the appointment of a national assessor to Northern Division last year.
3. Leadership and Influence <ul style="list-style-type: none"> Engagement with Governments and the media Professional and industry links Regulatory framework Providing Division leadership and governance 	<ul style="list-style-type: none"> The NT Infrastructure Report Card was launched by the Treasurer who is the Deputy Chief Minister, with over 100 guests and strong media coverage. Other industry groups have taken this initiative on board and developed responses to Government. The Division continues to be the Secretariat for Built Environment Design Professionals and NT Business Council providing ready access to other key stakeholders. Northern Division members have representation on major government, industry and building advisory boards.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> Public recognition of achievements Members promoting the profession Membership initiatives 	<ul style="list-style-type: none"> Our annual Gala Dinner had 130 attendees, and promoted the 2011 Year of Humanitarian Engineering theme with table activity "Darwin has been hit by a cyclone and all that is available to build a temporary shelter is a pile of NT newspapers". Our Engineering Excellence Awards in July 2010 had the theme "Year of Engineering Leadership" with over 310 in attendance. Environmental Award winner at Australian Engineering Excellence Awards "Water Reuse in Alice" was entered by Power & Water Corporation. Membership within Division has increased and members are regularly updated with weekly emails as well as the newsletter.
5. Education and Qualification <ul style="list-style-type: none"> Engineering competitions Promoting engineering on campus Engaging with academia Assisting overseas qualified engineers 	<ul style="list-style-type: none"> The Division hosted successful schools outreach programs EngQuest (with 10 schools registered and 663 students), the Science and Engineering Challenge in May 2011 in both Alice Springs and Darwin, and the 2010 Sunchase Solar Car and Boat Challenge in both Darwin and Alice Springs (over 190 students in attendance). Funding was secured to send the 2010 Science and Engineering Challenge winners Darwin High School to the Grand Challenge in Gosford in October 2010, and for an <i>Inspiring Australia</i> Science and Communication Officer for the Northern Territory. \$127k was secured to sustain the SMART program for remote students for three years. Charles Darwin University – continue strong support in Industry Engagement Group and Co-Op Degrees, with students completing CERs as part of their assessment process. Prizes for Engineering Ambassador also continue. Students are sponsored by industry to attend major events.
6. Internal Structure and Administration <ul style="list-style-type: none"> Keeping members informed Good management 	<ul style="list-style-type: none"> Over 50 events were held during the year, including eminent speaker tour events. Newsletters continue bi-monthly, with an annual review in the December edition. Increased sponsorship has contributed significantly to the Division's income stream, allowing for delivery of additional programs and staff to support them.

Membership - NOTHERN DIVISION

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr last yr
Graduates	115	116	115	109	118	8.3%
Members	233	225	219	247	255	3.2%
Fellows (and others)	52	55	55	52	53	1.9%
Sub-total	400	396	389	408	426	4.4%
Students	158	179	193	212	212	0.0%
Total - at 30 June	558	575	582	620	638	2.9%

Division Committee – at 30 June 2011

Len Chappell FIEAust CE_{NT} - *President, Congress Delegate*

Louise McCormick MIEAust - *Deputy President*

Dave McHugh FIEAust CPE_{ng} - *National Councillor*

Peter Hagan FIEAust CPE_{ng} - *Congress Delegate*

Nerida Beard GradIEAust

Sunny Bhatti GradIEAust

Gary Boyle MIEAust

Jaswant Deo OMIEAust CE_{ng}O

Justin DeZylva MIEAust

Sumesh Dhir MIEAust CPE_{ng}

John-Paul Foster MIEAust CPE_{ng}

Tom Gooding GradIEAust

Ken Gratton MIEAust CPE_{ng}

Tim Hajenko GradIEAust

Adam James MIEAust

David Lilley FICE FIS_{truct}E FIEAust CPE_{ng}

Chris Lugg FIEAust CPE_{ng}

Stephen Mencshelyi GradIEAust

Peter Russell FIEAust CPE_{ng}

Simon Turner MIEAust

Prof Eric Valentine FIEAust CPE_{ng}

DIVISIONS

STRATEGIC DOMAINS	QUEENSLAND DIVISION
1. Community Engagement <ul style="list-style-type: none"> – Seeking new forms of engagement – Australian Engineering Week 	<ul style="list-style-type: none"> • Support was offered to Emergency Management Queensland during the flood and cyclone disasters in Queensland. Ongoing support was offered through the Queensland Reconstruction Authority. • We achieved high profile exposure of our Australian Engineering Week activities through our main speaker astronaut Dr Andy Thomas. • Over 7,000 copies of the Engineering Wonders of Queensland publication were distributed throughout the year, with requests received from around the world.
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> – Promoting CPD and networking events – Promoting the Professional Development Program – Promoting being Chartered – Supporting diverse member interests – Supporting engineering standards and ethical awareness 	<ul style="list-style-type: none"> • Regular professional development activities were held throughout Queensland through the commitment of our dedicated volunteer office bearers. Regional engineering conferences were held in Townsville, Bundaberg, and Toowoomba. Technical presentations were made available on-line. • A Flood Sub-committee was established to identify lessons learned from the recent disasters in Queensland and to provide comment on the Flood Commission of Inquiry findings. • Corporate breakfasts were held on the developing coal seam gas/Ing industries and also on the challenges faced by the Queensland Reconstruction Authority in responding to the challenges from the Queensland natural disasters. • We maintained engagement with our Honorary Fellows through an annual luncheon. • An Overseas Qualified Engineers Support Group was established with successful events held. • Regular information sessions were held around the State on being Chartered and on the obligations under the Professional Engineers Act. 420 Chartered interviews held against a target of 100.
3. Leadership and Influence <ul style="list-style-type: none"> – Engagement with Governments and the media – Professional and industry links – Regulatory framework – Providing Division leadership and governance 	<ul style="list-style-type: none"> • The 2010 Queensland Infrastructure Report Card was launched, and a position paper on education released. • Dr Ziggy Switkowski was the keynote speaker for another successful Hawken Address. • Regular meetings were held with kindred bodies through our Professional Engineers Act Working Party. • Meetings were held with Ministers and Shadow Ministers, Directors-General, and Lord Mayors. • Our Division President engaged regularly with the 15 Queensland Regional Groups.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> – Public recognition of achievements – Members promoting the profession – Membership initiatives 	<ul style="list-style-type: none"> • Our successful 2010 Engineering Excellence Awards attracted 40 entries vs a target of 38. • Regional awards nights were held by Cairns, Townsville and Gladstone Regional Groups. • 70 nominations were received for the Individual Awards program, by far the best result ever achieved. Four members were inducted into our Queensland Engineering Hall of Fame. • We achieved membership growth of 6.2% to over 20,000 for the first time, with a 9.1% increase in the Member category. A new Student Engagement Strategy was developed. • An Overseas Qualified Support group was established and held successful events.
5. Education and Qualification <ul style="list-style-type: none"> – Engineering competitions – Promoting engineering on campus – Engaging with academia – Assisting overseas qualified engineers 	<ul style="list-style-type: none"> • 250 Queensland teams participated in the EngQuest primary school program against a target of 200 teams. • Sponsorship and member support was provided to the Engineering Link Group and the Science and Engineering Challenge secondary schools programs. • A roundtable luncheon was held with Engineering Deans from Queensland universities. • A position paper on STEM education was released through our Educational Linkages group.
6. Internal Structure and Administration <ul style="list-style-type: none"> – Keeping members informed – Good management 	<ul style="list-style-type: none"> • Increased member engagement enabled elections to be held for office bearer positions for Division Committee, Congress, and the Civil and Structural College Boards. • Division expenses for 2010-11 were managed within 1.5% of budget, and the air conditioning and lighting upgrade for our premises were delivered within budget. • We delivered a high quality newsletter to members each quarter.

Membership - QUEENSLAND DIVISION

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr last yr
Graduates	2,961	3,108	3,116	3,126	3,120	-0.2%
Members	5,978	6,323	6,845	7,485	8,169	9.1%
Fellows (and others)	823	832	842	875	899	2.7%
Sub-total	9,762	10,263	10,803	11,486	12,188	6.1%
Students	7,707	7,679	7,315	7,823	8,322	6.4%
Total - at 30 June	17,469	17,942	18,118	19,309	20,510	6.2%

Division Committee – at 30 June 2011

Dennis Wogan FIEAust CPEng - *President*Steven Goh MIEAust - *Deputy President*Michael Brady FIEAust CPEng - *Immediate Past President*

Suzanne BUROW MIEAust

Andrew Chapman MIEAust - *Congress Delegate*

Michael Egan MIEAust CPEng

Blake Harvey MIEAust CPEng

David Kirkpatrick MIEAust CPEng

Hari Krishnan TMIEAust

Stuart Lister HonFIEAust

Simon Orton MIEAust CPEng EngExec

Kelly Stallman MIEAust

Dr David Thorpe FIEAust CPEng

DIVISIONS

STRATEGIC DOMAINS	SOUTH AUSTRALIA DIVISION
1. Community Engagement <ul style="list-style-type: none"> - Seeking new forms of engagement - Australian Engineering Week 	<ul style="list-style-type: none"> • Australian Engineering Week took place 2nd – 8th August 2010 and during the week the Division held 27 site visits and workshops. The SA Division also had a booth at Science Alive! from 6th to 8th August at the Adelaide Showgrounds. Science Alive! reached record attendances with over 40,000 people over the three days.
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> - Promoting CPD and networking events - Promoting the Professional Development Program - Promoting being Chartered - Supporting diverse member interests - Supporting engineering standards and ethical awareness 	<ul style="list-style-type: none"> • The Sir Eric Neal Address was held with over 160 attendees. The Guest Speaker was Dr Lynn Arnold AO. Dr Arnold's presentation was titled 'Slumdog Engineer' and focused on the opportunities for engineers to contribute to humanitarian work. • A Breakfast Briefing was held with over 80 attendees. The theme for the event was Transit Oriented Developments and the guest speakers were GB Arrington, of PB PlaceMaking and Rod Hook, of DTEI. • The Division in conjunction with CELM and YEA hosted the first seminar in the lead up to the 2012 Engineering Leadership Conference. The event titled "Pathways to Leadership" was held over breakfast with over 100 attendees. The guest speakers were Steve Ludlam FEng FIEAust of ASC and Andrew Fletcher FIEAust CPEng of Defence SA.
3. Leadership and Influence <ul style="list-style-type: none"> - Engagement with Governments and the media - Professional and industry links - Regulatory framework - Providing Division leadership and governance 	<ul style="list-style-type: none"> • The Leadership Development Series managed by CELM Executive Committee continued with administration and event support from the Division. The final three sessions were held during the year. The Division also provided support for the 2012 Engineering Leadership Conference Organising Committee.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> - Public recognition of achievements - Members promoting the profession - Membership initiatives 	<ul style="list-style-type: none"> • The 2010 Engineering Excellence Awards Dinner was held on 10th September 2010 and sold out well in advance with over 360 attendees. The Division held a combined Student and Graduate "Secrets to Networking" event with over 60 registrations. The event provided attendees the opportunity to receive advice from more experienced engineers about the value of networking.
5. Education and Qualification <ul style="list-style-type: none"> - Engineering competitions - Promoting engineering on campus - Engaging with academia - Assisting overseas qualified engineers 	<ul style="list-style-type: none"> • The South Australia Division continued the successful Campus Coordinator Program with the University of Adelaide and University of South Australia. The Campus Coordinators and YEA Committee held student BBQ's in late 2010 and the Division participated in a number of visits to the universities during the year.
6. Internal Structure and Administration <ul style="list-style-type: none"> - Keeping members informed - Good management 	<ul style="list-style-type: none"> • The South Australian Division Committee developed three portfolios: Engineering Wonders, Construction and Year of Humanitarian Engineering. The portfolios developed aims and members of Division Committee worked towards delivering outcomes during the year. • The Annual Division Meeting and Christmas Networking event was held in December 2010 with over 50 attendees.

Membership - SOUTH AUSTRALIA DIVISION

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr last yr
Graduates	955	885	867	853	824	-3.4%
Members	1,786	1,892	1,955	2,016	2,127	5.5%
Fellows (and others)	420	411	408	421	422	0.2%
Sub-total	3,161	3,188	3,230	3,290	3,373	2.5%
Students	3,077	3,073	2,918	2,899	2,889	-0.3%
Total - at 30 June	6,238	6,261	6,148	6,189	6,262	1.2%

Division Committee – at 30 June 2011

Dr David Cruickshanks-Boyd FIEAust EngExec - *President, Congress Delegate*

Gerry Doyle MIEAust CPEng - *Deputy President*

Doug Gillott FIEAust CPEng - *Immediate Past President, National Councillor, Congress Delegate*

WGCDR Tobby Bearman FIEAust CPEng

Dr Cris Birzer MIEAust

Mark Brooking MIEAust

Tim Browne MIEAust

SQNLDR Fernando Gonzalez MIEAust CPEng

Mark Jones MIEAust

Anjan Kundu FIEAust CPEng

John Olson RFD FIEAust CPEng EngExec FAICD

Guillermina Perelmuter FIEAust CPEng

Michelle Shi-Verdaasdonk MIEAust

Ahn Tran GradIEAust

DIVISIONS

STRATEGIC DOMAINS	SYDNEY DIVISION
1. Community Engagement <ul style="list-style-type: none"> – Seeking new forms of engagement – Australian Engineering Week 	<ul style="list-style-type: none"> • Australian Engineering Week activities in August 2010 included 21 site tours, the Harricks Address on NSW Infrastructure and the annual Forum and Breakfast Series. Over 4500 people attended the activities. • The Australian Engineering Week public forum on “Technology - problem or solution?” included provocative presentations from James Moody (The Inventors), John Kaye MLC and Prof Cliff Hooker. • Extensive media coverage was achieved for the Excellence Awards, Engineering Week and especially for the Honeywell Engineering Summer School in the regional press.
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> – Promoting CPD and networking events – Promoting the Professional Development Program – Promoting being Chartered – Supporting diverse member interests – Supporting engineering standards and ethical awareness 	<ul style="list-style-type: none"> • Our 30 Sydney based Panels, Branches and Societies and 8 Regional Groups delivered 152 events with over 10,750 attendees. • Sydney Division initiated a debating series with the first topic “Engineers rather than lawyers make better politicians”, held at NSW Parliament House. This is the start of an annual series of debates with other professions. • We partnered with Skillmax NSW to assist migrant engineers develop their CV and interview skills.
3. Leadership and Influence <ul style="list-style-type: none"> – Engagement with Governments and the media – Professional and industry links – Regulatory framework – Providing Division leadership and governance 	<ul style="list-style-type: none"> • The NSW Infrastructure Report Card was released on 20 July 2010 and achieved extensive contact with NSW Ministers and Department Heads as well as national media coverage. • The launch of 2011 Year of Humanitarian Engineering at GOOGLE Head Office Sydney was a huge success, with excellent contributions from RedR, Engineers Without Borders, and the Australian Army.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> – Public recognition of achievements – Members promoting the profession – Membership initiatives 	<ul style="list-style-type: none"> • Excellence Awards again attracted a high number of entries and the annual exhibition of winners at Sydney Powerhouse Museum showcases engineering excellence to over 250,000 visitors. • Two Fellows lunches were held at NSW Parliament House with over 300 attendees. • Sydney Division member Jillian Kilby was awarded the Young Professional Engineer of the Year at the National Engineering Excellence Awards in Canberra November 2010.
5. Education and Qualification <ul style="list-style-type: none"> – Engineering competitions – Promoting engineering on campus – Engaging with academia – Assisting overseas qualified engineers 	<ul style="list-style-type: none"> • Honeywell Engineering Summer School is in its 14th year and the student participation continues to be overwhelming to the extent that the Division has conducted an additional Autumn School to accommodate the numbers. • The annual Careers EXPO run by Young Engineers Sydney continues to attract large numbers and is well supported by industry. • The Great Engineering Challenge at UNSW was conducted as part of Engineering Week with over 200 students from 16 Schools. The GEC held in Dubbo was also a big success with great support from Regional Schools. • Two extremely successful Discover Engineering Days were held that attracted over 500 students from 30 high schools.
6. Internal Structure and Administration <ul style="list-style-type: none"> – Keeping members informed – Good management 	<ul style="list-style-type: none"> • EngZone e-newsletter released in February 2011.

Membership - SYDNEY DIVISION

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr last yr
Graduates	3,401	3,216	3,086	3,000	3,018	0.6%
Members	7,438	7,633	7,843	8,075	8,185	1.4%
Fellows (and others)	1,351	1,320	1,296	1,309	1,333	1.8%
Sub-total	12,190	12,169	12,225	12,384	12,536	1.2%
Students	6,245	6,524	7,372	7,794	8,351	7.1%
Total - at 30 June	18,435	18,693	19,597	20,178	20,887	3.5%

Division Committee – at 30 June 2011

Maryam Khajeh MIEAust - *President*
 Brendyn Williams MIEAust - *Deputy President*
 Ian Ackland FIEAust CPEng - *Immediate Past President*
 Prof Alex Baitch FIEAust CPEng - *National Councillor, Congress Delegate*
 Phillip Cleary FIEAust CPEng
 Rosemary Crowhurst MIEAust
 Kevin Dixon FIEAust CPEng - *Congress Delegate*
 David Edwards FIEAust CPEng - *Congress Delegate*
 Norm Himsley FIEAust CPEng - *Congress Delegate*
 Bruce Howard FIEAust CPEng - *National Councillor*
 Dr Marlene Kanga FIEAust CPEng - *National Councillor*

Donald Hector FIEAust CPEng
 Jon Lee MIEAust
 Terri Lin MIEAust
 Patrick McMullan FIEAust CPEng
 Julie Mikhail MIEAust
 Michael Myers FIEAust CPEng
 John Nichols FIEAust CPEng
 Dr Debashis Raha FIEAust CPEng
 Jon Thompson MIEAust CPEng
 Ted Tooher FIEAust CPEng
 Marlene Van der Sterren MIEAust

DIVISIONS

STRATEGIC DOMAINS	TASMANIA DIVISION
1. Community Engagement <ul style="list-style-type: none"> – Seeking new forms of engagement – Australian Engineering Week 	<ul style="list-style-type: none"> • The President continues to be invited to address other bodies on matters relating to our 2010 Infrastructure Report Card. • Successful public forums were held on: Road Safety (during AEW), Water meters and Reconciliation Action Plans.
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> – Promoting CPD and networking events – Promoting the Professional Development Program – Promoting being Chartered – Supporting diverse member interests – Supporting engineering standards and ethical awareness 	<ul style="list-style-type: none"> • Invitations to 117 CPD events organised by Engineers Australia and related professional bodies online were distributed to members, plus information on the 500+ webcast events available. The number of EEA courses held in Tasmania has increased and a travel subsidy has been offered to North & North West Group members to attend courses in Hobart. • Three eminent speaker tours were conducted around Tasmania, with very high attendance achieved – good feedback was received for their presentation at the University. • 2 new PDP agreements were signed, and 2 re-signed. • 3 presentation series on becoming Chartered were held in Hobart & Launceston, and a Chartered status Focus Group meeting in Hobart. CPEng is accepted as a basis for accreditation under the Building Act.
3. Leadership and Influence <ul style="list-style-type: none"> – Engagement with Governments and the media – Professional and industry links – Regulatory framework – Providing Division leadership and governance 	<ul style="list-style-type: none"> • A Parliamentary Support Program was established during the year, with 13 politicians and 34 members involved. • The Division was involved with other professional bodies in numerous activities including the Tasmanian Professional Bodies Council, Building Industry Reference Group, Building & Construction Industry Council, and the joint Professions Working Group regarding training funding. Engineers Australia is well respected by related bodies who seek to be involved with us in joint activities and promotions. The Division continues to underpin the activities of the Young Professionals Network Tasmania.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> – Public recognition of achievements – Members promoting the profession – Membership initiatives 	<ul style="list-style-type: none"> • 14 entries were received for the Excellence Awards in July 2011. • The Division gave written support for a member's nomination for an Australia Day honour - Peter Spratt AO. • CELM/YEAT ran a successful breakfast event for over 90 guests at the launch of the Year of Humanitarian Engineering, addressed by the National President and a Young Engineer. • A Heritage Landmark on the Boyer Paper Mill was unveiled by the Governor. • 45% of Division members voted in the Ballot.
5. Education and Qualification <ul style="list-style-type: none"> – Engineering competitions – Promoting engineering on campus – Engaging with academia – Assisting overseas qualified engineers 	<ul style="list-style-type: none"> • The Science and Engineering Challenge continues to be successful with 7 heats in Hobart, Launceston and Burnie, followed by a State final. The Engineering Initiative Program for 37 high achieving maths and science students continued to be successful, and well-received by participants and supporters. Support continues to be given to other schools programs including the Model Solar Vehicle Challenge, F1 in Schools, Tas Science Talent Search, Tournament of Minds etc. • David Pointing has been appointed as Education Program Manager on a part time basis and engagement with education related partners is blossoming. • The Women in Engineering "Go Girl" brochure has proved to be very effective for school visits and general promotion of engineering as a career.
6. Internal Structure and Administration <ul style="list-style-type: none"> – Keeping members informed – Good management 	<ul style="list-style-type: none"> • 10 issues of the Division newsletter (16-24 pages each) were produced and printed in house and posted to members. Regular electronic updates were sent to members. • After some 24 years without change, the Division office now has an additional part time person to assist in providing a friendly supportive service to members and groups.

Membership - TASMANIA DIVISION

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr last yr
Graduates	281	251	273	268	238	-11.2%
Members	505	516	520	531	549	3.4%
Fellows (and others)	124	126	128	136	135	-0.7%
Sub-total	910	893	921	935	922	-1.4%
Students	330	404	396	375	374	-0.3%
Total - at 30 June	1,240	1,297	1,317	1,310	1,296	-1.1%

Division Committee – at 30 June 2011

Greg Walters FIEAust CPEng EngExec - *President, Congress Delegate*

Keith Midson FIEAust CPEng - *Deputy President*

Grant Atherton FIEAust CPEng - *Immediate Past President, Congress Delegate*

Michael Green FIEAust CPEng EngExec - *Congress Delegate*

Royce Aldred TMIEAust

Dr Jessica Andrewartha MIEAust

Richard Bevan FIEAust CPEng

Michael Brewster FIEAust CPEng

David Brumby FIEAust CPEng (Ret)

Bruce Cole FIEAust CPEng (Ret)

Alan Coote MIEAust CPEng

Adrian Granger GradOIEAust

Erin Jackson MIEAust

Tung Hoang GradIEAust

Henk Kremer FIEAust CPEng

Colin Mazengarb (*Geomechanics rep*)

Andrew Murray MIEAust CPEng

David Pointing MIEAust

Jane Sargison MIEAust

Sandra Thaow MIEAust CPEng

Donald Vaughan GradIEAust

DIVISIONS

STRATEGIC DOMAINS	VICTORIA DIVISION
1. Community Engagement <ul style="list-style-type: none"> – Seeking new forms of engagement – Australian Engineering Week 	<ul style="list-style-type: none"> • Victoria Division Committee continued with the Community/Industry Outreach program with an outreach visit prior to each Division Committee meeting. Other forms of engagement included hosting a musical evening with Melbourne Rotary, and formation of a partnership with Neighbourhood Houses. • Australian Engineering Week included over 60 events, the largest of all Divisions. Many new organisations were involved and all events were well promoted and attended. • Three Groups launched 'Issues' papers: Transport Group (2 papers); a joint response to the Victoria Floods with IPWEA and Consult Australia; and an Overseas Qualified Engineers Group Strategy Paper.
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> – Promoting CPD and networking events – Promoting the Professional Development Program – Promoting being Chartered – Supporting diverse member interests – Supporting engineering standards and ethical awareness 	<ul style="list-style-type: none"> • The Division introduced a new CPD Delivery Strategy for the development and promotion of CPD activities. A key strategy is the engagement of young engineers on Committees. • Three very successful Fellows Luncheons were held, two with 440-450 attendees: <i>SmartRoads</i> via an expert panel discussion, and presentations on <i>Australia's approach to disaster management</i> and <i>The NBN - an engineering challenge</i>. • Other successful networking initiatives were the new members only Member-Meet-Up Series hosted by Board of Engineering members (some 80 attendees), and an Officer and Technologist cocktail function during AEW (110 attendees). • A new member group was established in Dandenong; and over 70 members, family and friends attended the Regional Groups Country Family Weekend.
3. Leadership and Influence <ul style="list-style-type: none"> – Engagement with Governments and the media – Professional and industry links – Regulatory framework – Providing Division leadership and governance 	<ul style="list-style-type: none"> • Mr Tim Flannery delivered the keynote at the Engineering Leadership Gala Dinner to celebrate 2010 the Year of Engineering Leadership. Attracted over 350 attendees. • A new Thought Leaders Series was introduced. Mr Tony Arnel, Chair of the World Green Building Council, delivered the inaugural keynote - <i>International Cities of the Future: Sustainable, Liveable and Smart</i>. • Our new media strategy, and the Transport Group paper <i>Choosing a sustainable land use and transport path</i>, were launched at a lunch for the press. • Two-year terms have been introduced for Division Committee members. This has been adopted by a number of Divisions. The success of our recent Emerging Leaders programs is evident with many of the graduates now actively involved in committees or policy work.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> – Public recognition of achievements – Members promoting the profession – Membership initiatives 	<ul style="list-style-type: none"> • An extensive review and updating of the Victorian Engineering Excellence Awards program was undertaken, including alignment with the national awards criteria. The inaugural Professional Engineer of the Year Award for Victoria Division was launched. • A new Annual Meeting to celebrate the work of our volunteers was introduced, hosted by the Senior Engineers Group with over 110 attendees.
5. Education and Qualification <ul style="list-style-type: none"> – Engineering competitions – Promoting engineering on campus – Engaging with academia – Assisting overseas qualified engineers 	<ul style="list-style-type: none"> • A new <i>Grade 9 Humanitarian Engineering Conference</i> was launched in conjunction with AKORN Education and EWB. Over 80 students participated in the inaugural event. We supported also the new <i>Engineering-Schools-At-Work</i> program for grade 10-11 students. The number of <i>Discover Engineering</i> school visits was doubled from 2009-2010, with many new regional school visits. • A new online Careers Handbook was launched, and adopted by several Divisions. • A very successful Engineering Careers Expo was held - 3 major sponsors, over 80 exhibitors, 16 industry seminars and 8,000+ attendees.
6. Internal Structure and Administration <ul style="list-style-type: none"> – Keeping members informed – Good management 	<ul style="list-style-type: none"> • Successfully introduced a new electronic Office Bearers Handbook, and moved to a new national process for elections. • Restructured office and introduced 2 new roles to support the Division's Groups.

Membership - VICTORIA DIVISION

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr last yr
Graduates	2,922	2,988	2,939	3,013	3,076	2.1%
Members	6,673	6,800	7,056	7,347	7,507	2.2%
Fellows (and others)	1,388	1,377	1,372	1,381	1,376	-0.4%
Sub-total	10,983	11,165	11,367	11,741	11,959	1.9%
Students	6,813	7,709	8,478	9,708	10,789	11.1%
Total - at 30 June	17,796	18,874	19,845	21,449	22,748	6.1%

Division Committee – at 30 June 2011

Paul Collier FIEAust CPEng MIPENZ - *President*John McIntosh FIEAust CPEng EngExec - *Deputy President*David Eltringham FIEAust CPEng - *Immediate Past President*Geoff Hayes FIEAust CPEng - *Congress Delegate*

Janos Baranyi FIEAust CPEng

Peter Bowtell FIEAust CPEng

Lawrence Chew FIEAust CPEng FICE CEng

Margret Doring FIEAust CPEng

Dr Mark Gregory FIEAust

Wayne Lewis FIEAust CPEng

Ross Proud MIEAust CPEng

Alesha Printz MIEAust

Dr Meredith Rogers FIEAust

Tom Sargant FIEAust CPEng

Annie Tchung MIEAust

Norman Tickner FIEAust CPEng

DIVISIONS

STRATEGIC DOMAINS	WESTERN AUSTRALIA DIVISION
1. Community Engagement <ul style="list-style-type: none"> – Seeking new forms of engagement – Australian Engineering Week 	<ul style="list-style-type: none"> • During Australian Engineering Week 2010, the Division achieved good participation in a public forum on “What if Perth was a city without cars” and a joint forum with ATSE on ‘Cape to City – impact of sea level rise’. • Three regional presentations were conducted in the Year of Engineering Leadership. • We raised public awareness of engineering through an exhibition of engineering excellence awards posters and through an Engineering Week newspaper lift out.
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> – Promoting CPD and networking events – Promoting the Professional Development Program – Promoting being Chartered – Supporting diverse member interests – Supporting engineering standards and ethical awareness 	<ul style="list-style-type: none"> • More than 10,170 members attended 297 events, including 4 conferences and 18 site visits (around 420 hours of CPD offered). • Regional CPD activity increased, and there was an increase in co-badged events between groups and with international organisations. • Chartered membership was actively promoted, and we saw PDP activity at a high level. 12 Chartered workshops were held in metropolitan and regional areas. • Fellows dinners and member networking events were well-attended.
3. Leadership and Influence <ul style="list-style-type: none"> – Engagement with Governments and the media – Professional and industry links – Regulatory framework – Providing Division leadership and governance 	<ul style="list-style-type: none"> • The 2010 WA Infrastructure Report Card was launched. Ongoing liaison occurred with Government Ministers, Shadow Ministers and Departmental officers on skills and infrastructure issues. • Good links were maintained with other professional and industry associations, and the Division supported National Science Week, Women in Mining, and the Breast Cancer Foundation. • Our OF Blakey public speaking competition for young engineers was well received, with high quality entrants. • Our 2011 Year of Humanitarian Engineering committee was established and the theme for the year well promoted through all events. • The Division President experienced a high level of member engagement during visits to regional groups.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> – Public recognition of achievements – Members promoting the profession – Membership initiatives 	<ul style="list-style-type: none"> • Our Engineering Excellence Awards in September 2010 were well supported, with over 30 entries and the presentation dinner for over 600 people was sold out. The Excellence Awards showcase booklet was distributed widely to industry and government. • Member certificate presentation nights were well attended and appreciated. • 1040 students and 70 exhibitors attended the Engineers Australia Careers Expo and the vacation employment handbook was very well received. • Our invitation to upgrade program for student to graduate and graduate to member was very successful. Overall, membership continued to grow at around 5% per annum.
5. Education and Qualification <ul style="list-style-type: none"> – Engineering competitions – Promoting engineering on campus – Engaging with academia – Assisting overseas qualified engineers 	<ul style="list-style-type: none"> • Young engineers participated in career expos’ at several schools, and the spaghetti bridge and tower competitions held by regional groups were well attended. • A highlight of 2010 was our Division Award for Excellence in Teaching. • The Division continued support of engineering studies courses, summer school programs, the Maths Association, defence industry careers expo, and the model solar car challenge. • Participation in the Science and Engineering Challenge expanded to over 2,700 in 2010. • Student information sessions during AEW oversubscribed • Student medals awarded for University and polytechnic students
6. Internal Structure and Administration <ul style="list-style-type: none"> – Keeping members informed – Good management 	<ul style="list-style-type: none"> • Members were kept well informed through newsletters, emails and website information. • High level of volunteer support was provided, and good participation in Division elections. • Governance training was provided to volunteers and appropriate skills development provided to staff.

Membership - WESTERN AUSTRALIA DIVISION

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr last yr
Graduates	2,013	2,158	2,297	2,282	2,218	-2.8%
Members	4,207	4,546	4,960	5,368	5,793	7.9%
Fellows (and others)	605	610	624	652	677	3.8%
Sub-total	6,825	7,314	7,881	8,302	8,688	4.6%
Students	3,738	3,904	3,990	4,356	4,822	10.7%
Total - at 30 June	10,563	11,218	11,871	12,658	13,510	6.7%

Division Committee – at 30 June 2011

Prof Mark Bush FIEAust CPEng FTSE - *President*

Barry Tonkin FIEAust CPEng - *Deputy President*

Prof Tony Lucey FIEAust - *Immediate Past President, Congress Delegate*

Helen Pedersen FIEAust - *Vice President*

Lorie Jones FIEAust CPEng - *Congress Delegate*

Richard Atkinson FIEAust CPEng

Russell Byfield FIEAust CPEng

Denis Hare GradIEAust

Dr David Mofflin FIEAust CPEng

Will Neethling TMIEAust CEngT

Luke Nofal GradIEAust

FROM OUR GROUPS - COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	COLLEGE OF BIOMEDICAL ENGINEERS
1. Community Engagement	<ul style="list-style-type: none"> A public release of a discussion paper on the future direction of Clinical Engineering is planned for August as part of the Australian Biomedical Engineering Conference (ABEC). This paper has been developed by the College to identify the current issues facing the profession and to promote public discussion. Comments submitted will aid the Board in setting future strategic goals over the coming years.
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> Identifying CPD needs Conferences and publications Eminent speakers Keeping competencies and practice standards current 	<ul style="list-style-type: none"> The ABEC run in conjunction with the Engineers and Physical Sciences in Medicine was successfully held in November 2010 at the Melbourne Cricket Ground. This must attend 3½ day conference provides the profession with a place to network, present work to their peers, and join in robust discussion on the current trends in the industry. The planning for the 2011 conference is almost complete with the Darwin conference to be held in August 2011. Two editions of the Biomedical Engineering Newsletter were produced and distributed. This newsletter not only provides a summary of the activities of the College across Australia, it also enables the College to promote itself and the work carried out by its members. With 2011 being the Year of Humanitarian Engineering the College was invited to provide significant input into activities planned throughout the year. Several symposiums will be carried out during the year ending with participation in the Australian Humanitarian Engineering Conference. As part of the Eminent Speaker program the College organised for Martin Ferguson-Pell from Canada to tour the country providing insight into the field of Rehabilitation Engineering.
3. Leadership and Influence <ul style="list-style-type: none"> Contributing to national policy development Leadership for the learned society Engagement with kindred bodies – national and international 	<ul style="list-style-type: none"> Due to the significant work many members of the Biomedical Engineering profession conduct in the area of humanitarian aid, a new National Panel on Biomedical Technical Aid (NPBTA) was established. The focus of the new panel is technical aid off-shore in developing economies, disaster relief and humanitarian aid missions. Following a submission the College formalised its affiliation with the International Federation of Medical and Biomedical Engineers (IFMBE). As a significant proportion of the Biomedical Engineering profession is working at the associate level of practice, the College Board approached the state-based Society for Medical and Biological Engineering to discuss the possibility of becoming a technical society of Engineers Australia. Over the past 12 months the College Board has been working on a paper titled <i>Crossroads – A Discussion Paper on Managing Medical Technology for an Assured Future</i>. The paper is to be publicly released in August and raises the issues around the essential roles provided by clinical engineering professionals.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> College Awards <ul style="list-style-type: none"> David Dewhurst Award: Jack McLean (Adelaide) <i>The Women in Biomedical Engineering Scholarship</i>: Rylie Green (NSW GSBME) to attend the 32nd International Conference of the IEEE EMBS Conference in Buenos Aires on Merging Medical. <i>Young Biomedical Engineering Conference Prize</i>: Ms Anushi Rajapaksa – “A Portable Pulmonary Delivery System for Nano-engineered DNA Vaccines driven by SAW Devices”. <i>Conference Poster Prize</i>: Me Ha and Joshua Khoo – “Wireless Ambulatory Physiological Monitoring System in System in Spinal Cord Rehabilitation”.
5. Education and Qualification <ul style="list-style-type: none"> Contributing to relevant tertiary curricula 	<ul style="list-style-type: none"> The College Board has continued its work towards the inclusion of Biomedical Engineering into the National Health Practitioners Registration framework. Although unsuccessful with the first submission, the Board has continued to delve into the requirements and expectations of the new oversight authority.
6. Internal Structure and Administration <ul style="list-style-type: none"> Improved information for members Good governance 	<ul style="list-style-type: none"> In line with the focus on Humanitarian Engineering, the College has formed a new committee to focus on the issues of providing Biomedical Engineering Aid. The National Panel on Biomedical Technical Aid (NPBTA) held its inaugural meeting in December 2010.

Membership - COLLEGE OF BIOMEDICAL ENGINEERS

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr
Graduates	150	148	143	146	150	2.7%
Members	120	129	136	145	147	1.4%
Fellows (and others)	60	60	64	67	66	-1.5%
Sub-total	330	337	343	358	363	1.4%
Students	480	538	606	634	748	18.0%
Total - at 30 June	810	875	949	992	1,111	12.0%

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	NATIONAL COMMITTEE ON REHABILITATION ENGINEERING (NCRE)	NATIONAL PANEL ON BIOMEDICAL ENGINEERING EDUCATION AND RESEARCH (NPBEER)
<p>1. Community Engagement</p>		
<p>2. Body of Knowledge and Professional Development</p> <ul style="list-style-type: none"> - Identifying CPD needs - Conferences and publications - Eminent speakers - Keeping competencies and practice standards current 	<ul style="list-style-type: none"> • The Committee is active in 2011 <i>Year of Humanitarian Engineering</i>, and is scheduled to host a symposium on 16 August in conjunction with EPSM-ABEC 2011 in Darwin. Three guest speakers representing health, disability policy and suppliers presented. Numbers were very low. Symposium will be repeated in Perth in November. We expect more participants there due to the presence of rehabilitation engineering services within the health system. • Four members have participated in ME67 meetings in Australia. Two members have participated in international TC173 meetings in Bangkok, Nashville and Pittsburgh. Two members will also participate in the November 2011 meetings in Dublin. • Two NCRE committee members are on the organising committee for ABEC 2012 in Queensland. 	<ul style="list-style-type: none"> • Panel members attended and presented papers at the Australian Biomedical Engineering Conference (ABEC), held in Melbourne in December 2010. The NPBEER Chair was an invited speaker at the conference. • NPBEER members were involved in organisation of the ABEC 2011, to be held in Darwin in August. The NPBEER Chair is Scientific Chair for the conference.
<p>3. Leadership and Influence</p> <ul style="list-style-type: none"> - Contributing to national policy development - Leadership for the learned society - Engagement with kindred bodies – national and international 	<ul style="list-style-type: none"> • Two EA/NCRE policy statements were presented at ARATA 2010 in Hobart. 	<ul style="list-style-type: none"> • Panel members provided expert advice to the Australian Research Council on Excellence in Research in Australia (ERA) rankings for Biomedical Engineering. • Relationships are being established with kindred bodies such as AusMedtech. The NPBEER Deputy Chair is Outgoing Chair of the AusMedtech committee in NSW and will maintain his involvement through 2012.
<p>4. Recognition, Promotion and Membership</p> <ul style="list-style-type: none"> - Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> • NCRE has been granted funding to develop a Professional Development Exchange Award, which will sponsor two Rehabilitation Engineers/Technologists/ Associates to spend one week at a Rehabilitation Engineering Centre in another state. The award is under development. 	
<p>5. Education and Qualification</p> <ul style="list-style-type: none"> - Contributing to relevant tertiary curricula 	<ul style="list-style-type: none"> • NCRE has had the opportunity to contribute to the initial work on a new qualification for Rehabilitation Engineering Technicians in Queensland Health. 	<ul style="list-style-type: none"> • A database of biomedical engineering-related courses across Australia was constructed. Once validated, we aim to host this on the NPBEER website. • Funding for a student competition or prize to encourage students to attend the Australian Biomedical Engineering Conference has been investigated. This will be implemented for ABEC 2012. • NPBEER are planning a full day of activity in ABEC 2012 in Brisbane particularly aimed at engaging students. An eminent speaker and a media facilitator for a student oriented Q&A will be involved in this event.
<p>6. Internal Structure and Administration</p> <ul style="list-style-type: none"> - Improved information for members - Good governance 		<ul style="list-style-type: none"> • NPBEER now has a presence on the EA website.

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	NATIONAL PANEL ON BIOMECHANICS OF IMPACT INJURY (NPBII)	NATIONAL PANEL ON CLINICAL ENGINEERING (NPCE)
<p>1. Community Engagement</p>		
<p>2. Body of Knowledge and Professional Development</p> <ul style="list-style-type: none"> - Identifying CPD needs - Conferences and publications - Eminent speakers - Keeping competencies and practice standards current 	<ul style="list-style-type: none"> • Negotiated an understanding for the joint conduct of professional seminars with the SAEA. • Organised and supported a public seminar with SAEA regarding the use of ISOFIX for the CRS in Australia. 	<ul style="list-style-type: none"> • The Panel provided speakers in the ABEC portion of the annual EPSM-ABEC conference as well as being part of the organising committee for the combined conference. • The clinical development workshop for young engineers has continued to grow. The workshop held during the EPSM- ABEC conference had ten participants and an industry-provided prize pool of \$6,000. • Ongoing support in the development of Australian Standards which included AS 2896 and the detailed drafting of AS/NZs3003 and AS/NZs3551, with educational workshops during the development process in the major capital cities. • Ad hoc advice on the interpretation of Standards.
<p>3. Leadership and Influence</p> <ul style="list-style-type: none"> - Contributing to national policy development - Leadership for the learned society - Engagement with kindred bodies – national and international 	<ul style="list-style-type: none"> • Continued to support the College. • Submitted a Position Paper by the National Panel to the ten year review of the Federal Strategic Plan for Road Safety. • Supported Engineers Australia’s response to the Draft Strategic Plan for Road Safety. • Completed and published papers in the <i>Engineers Australia</i> magazine and the <i>ACRS Journal</i> regarding the growing crisis in safety equipment standards in Australia. • Supported the CRS, Motorcycle and Helmet Test Methodology Standards Committees of South Australia. 	<ul style="list-style-type: none"> • Development of biomedical survey document forming part of ACHS Equip protocols. This now forms part of some of the requirements of the Equip 5 survey. • Ongoing discussion with the Society for Medical and Biological Engineering (SMBE) to develop a closer relationship with the College.
<p>4. Recognition, Promotion and Membership</p> <ul style="list-style-type: none"> - Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> • Nominated Jack McLean for the Dewhurst Award. 	<ul style="list-style-type: none"> • Four prizes were awarded at the clinical development workshop. Two prizes were decided by the participants, whilst the other two were decided by the mentors.
<p>5. Education and Qualification</p> <ul style="list-style-type: none"> - Contributing to relevant tertiary curricula 	<ul style="list-style-type: none"> • Continued to investigate subjects and formats for presenting Injury Biomechanics. 	<ul style="list-style-type: none"> • Continued to pursue the process of mentoring.
<p>6. Internal Structure and Administration</p> <ul style="list-style-type: none"> - Improved information for members - Good governance 	<ul style="list-style-type: none"> • The Committee has been impacted by constraints on members’ availability. Teleconference held in July; no face-to-face meeting took place. 	<ul style="list-style-type: none"> • The Panel struggles to meet all its objectives due to the substantial time period between meetings. There is a need to increase the number of teleconferences to improve output.

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	COLLEGE OF CHEMICAL ENGINEERS
1. Community Engagement	<ul style="list-style-type: none"> Local joint committees were actively engaged in 2011 <i>Year of Humanitarian Engineering</i>. The annual Chem-e-Car Challenge was extended to include participants from local secondary schools.
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> Identifying CPD needs Conferences and publications Eminent speakers Keeping competencies and practice standards current 	<ul style="list-style-type: none"> The Australasian Chemical Engineering community is cooperatively represented by The Australian and New Zealand Federation (ANZFChE). The Chemical College is a founding member of this organisation. A pleasing development has been the broadening of the New Zealand base to include The Institution of Professional Engineers, New Zealand (IPENZ). This expansion was strongly supported by the College Board. The College strongly supports <i>Chemical Engineering in Australia</i>, a quarterly electronic newsletter published jointly with IChemE. The National Committee on Fuels and Energy was reconfigured in 2010 under the leadership of Dr Mike Sargent. The Committee is currently considering "Energy Futures for Australia". A highly successful Chemeca Conference on "Engineering at the Edge" was held in Adelaide in September 2010. State-based joint committees are actively engaged in the regular delivery of technical programs and CPD delivery. A CPD Committee was developed in 2010 and an initial workshop on "Modelling using Computational Dynamics" was delivered successfully in Perth in November 2010. The model is to be extended to other states.
3. Leadership and Influence <ul style="list-style-type: none"> Contributing to national policy development Leadership for the learned society Engagement with kindred bodies – national and international 	<ul style="list-style-type: none"> The Board is committed to maintaining a cycle of reviews of all public Engineers Australia policies as per an established schedule. Through the ANZFChE the Board continues to make a significant contribution to the work of the Asia-Pacific Confederation of Chemical Engineers (APCChE). The Board is strongly supporting a bid for the 15th Conference to be held in Melbourne in 2015.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> Professor Hans Muller Steinhagen (Institute of Technical Thermodynamics, German Aerospace Center, Stuttgart, Germany) was the 2010 Eminent Speaker. His topic was <i>Power from the Deserts for Sustainable Energy</i>. The College Board awards the John A. Brodie Medal for the "Best Chemical Engineering Paper" of the current year. The award is made at the annual Chemeca Conference.
5. Education and Qualification <ul style="list-style-type: none"> Contributing to relevant tertiary curricula 	<ul style="list-style-type: none"> Monitored the progress of three undergraduate programs as per established procedures.
6. Internal Structure and Administration <ul style="list-style-type: none"> Improved information for members Good governance 	<ul style="list-style-type: none"> Membership of the College Board has been expanded to provide broader coverage of ever expanding areas of innovation within the profession (particularly in the nanotechnology and biochemical areas) and to allow new initiatives to be developed. Tasmania is now represented on the College Board and we are seeking a member from the Northern Territory. A National Committee on Oil and Gas is currently being developed.

Membership - COLLEGE OF CHEMICAL ENGINEERS

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr
Graduates	1,000	1,018	1,005	1,008	987	-2.1%
Members	1,201	1,254	1,344	1,417	1,503	6.1%
Fellows (and others)	304	302	299	294	293	-0.3%
Sub-total	2,505	2,574	2,648	2,719	2,783	2.4%
Students	2,217	2,441	2,561	2,873	3,112	8.3%
Total - at 30 June	4,722	5,015	5,209	5,592	5,895	5.4%

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	NATIONAL COMMITTEE ON FUELS AND ENERGY (NCF&E)
1. Community Engagement	
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> - Identifying CPD needs - Conferences and publications - Eminent speakers - Keeping competencies and practice standards current 	<ul style="list-style-type: none"> • The National Committee on Fuels and Energy continues to develop an Issues Paper on Australian Energy Futures, providing a broad view of the issues relating to energy security and the impacts across all sectors of the energy sector.
3. Leadership and Influence <ul style="list-style-type: none"> - Contributing to national policy development - Leadership for the learned society - Engagement with kindred bodies – national and international 	<ul style="list-style-type: none"> • The Issues Paper will provide Engineers Australia with the platform to take a leading position in the energy debate.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> - Recognising excellence and contributions to the profession 	
5. Education and Qualification <ul style="list-style-type: none"> - Contributing to relevant tertiary curricula 	
6. Internal Structure and Administration <ul style="list-style-type: none"> - Improved information for members - Good governance 	<ul style="list-style-type: none"> • The Committee has had few changes to its composition, adding a member with knowledge of energy distribution and new technologies.

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	COLLEGE OF CIVIL ENGINEERS
1. <i>Community Engagement</i>	
2. <i>Body of Knowledge and Professional Development</i> <ul style="list-style-type: none"> - Identifying CPD needs - Conferences and publications - Eminent speakers - Keeping competencies and practice standards current 	<ul style="list-style-type: none"> • Two editions of the Australian Journal of Civil Engineering (AJCE) were published during the year. The editor of the journal is consulting with the Australian Journal of Structural Engineering (AJSE) with regard to publishing CECAR 5 papers. • Following the successful CECAR 5 Conference, the College continues to be represented at the Asian Civil Engineering Coordinating Council (ACECC). The Civil College Board (CCB) Representative attended the ACECC Jakarta meeting in February and will be attending the next meeting in Delhi. • The Board will support Engineer Australia's Year of Humanitarian Engineering through its National Committees and will provide assistance where possible for the Year of the Regional Engineering Team. • Civil and Structural College Boards collaborated with Engineering Practice to review/revise and provide agreed requirements for Engineers Australia nominees to Standards Australia Committees. • Dr Tony Wong, Civil Engineer of the Year, undertook an Eminent Speaker Tour which was extremely well received by all areas visited.
3. <i>Leadership and Influence</i> <ul style="list-style-type: none"> - Contributing to national policy development - Leadership for the learned society - Engagement with kindred bodies – national and international 	<ul style="list-style-type: none"> • Civil College actively encouraged participation with kindred organisations. • Current agreements with stakeholders such as the American Society of Civil Engineers (ASCE) and the Institute of Public Works Engineering Australia (IPWEA) are being reviewed to ensure they remain current.
4. <i>Recognition, Promotion and Membership</i> <ul style="list-style-type: none"> - Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> • A very successful Awards presentation was held in Canberra in October 2010 with the Civil Engineer of the Year, the Rod McGee and the Warren Medals being awarded. • The Civil and Structural Colleges will be holding a joint awards presentation evening on 27 October 2011 in Sydney.
5. <i>Education and Qualification</i> <ul style="list-style-type: none"> - Contributing to relevant tertiary curricula 	<ul style="list-style-type: none"> • The Tasmanian Department of Infrastructure, Energy and Resources became the sole sponsor of the Rod McGee Medal for the next five years.
6. <i>Internal Structure and Administration</i> <ul style="list-style-type: none"> - Improved information for members - Good governance 	<ul style="list-style-type: none"> • The College Board is working with the Communications and Marketing Directorate to develop e-learning tools for the College's website and is looking at additional ways of communicating with members.

Membership - COLLEGE OF CIVIL ENGINEERS

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr
Graduates	4,282	4,204	4,220	4,123	4,126	0.1%
Members	14,938	15,288	16,229	16,794	17,158	2.2%
Fellows (and others)	2,475	2,488	2,599	2,666	2,697	1.2%
Sub-total	21,695	21,980	23,048	23,583	23,981	1.7%
Students	7,619	8,557	9,575	11,058	12,193	10.3%
Total - at 30 June	29,314	30,537	32,623	34,641	36,174	4.4%

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	NATIONAL COMMITTEE ON CONSTRUCTION ENGINEERING (NCCE)	NATIONAL COMMITTEE ON COASTAL AND OCEAN ENGINEERING (NCCOE)
1. <i>Community Engagement</i>		
2. <i>Body of Knowledge and Professional Development</i> <ul style="list-style-type: none"> – <i>Identifying CPD needs</i> – <i>Conferences and publications</i> – <i>Eminent speakers</i> – <i>Keeping competencies and practice standards current</i> 	<ul style="list-style-type: none"> • The NCCE has been working on further education opportunities for advancing construction engineering. A survey was conducted during the year with the survey results being discussed with Engineering Education Australia (EEA). The NCCE is working in collaboration with EEA to progress this initiative. • The 2011 Australian Construction Achievement Awards (ACAA) technical papers were made available on the ACAA website and can also be accessed via a link on the NCCE website. • Planning is well advanced for an Eminent Speaker Tour in October/November 2011. 	<ul style="list-style-type: none"> • NCCOE contributed to CECAR 5 during 2010 as well as the invitation-only 2010 Coast to Coast conference in Adelaide. • NCCOE's Coasts and Ports Conference is being held in Perth in September 2011 and the expectation is that it will be as successful as the last conference. • Workshop on Climate Change Guidelines is being held during the 2011 Coasts and Ports Conference. • NCCOE received funding from the Department of Climate Change and Energy Efficiency (DCCEE) to update its Climate Change and Sustainability Guidelines as well as creating a third volume on adaptation. The Climate Change Guidelines are nearing completion. The Sustainability Guidelines have been scoped and a workshop was held in March 2011 with relevant parties. • The NCCOE hosted Steven Hughes from the US on an Eminent Speaker Tour. Steven spoke on the topical issue of flood and storm levees with approximately 600 members attending the sessions. • The NCCOE is continuing to work with Division Directors to develop Coastal Panels in those states that do not currently have one. A survey was conducted to gauge interest in the establishment of a Victorian Panel. • The NCCOE has maintained representation on the PIANC Board and engagement with PIANC and Ports Australia regarding the Coasts and Ports Conference and associated workshops.
3. <i>Leadership and Influence</i> <ul style="list-style-type: none"> – <i>Contributing to national policy development</i> – <i>Leadership for the learned society</i> – <i>Engagement with kindred bodies – national and international</i> 	<ul style="list-style-type: none"> • The NCCE has been actively working to increase its profile with construction engineers and is being successful in attracting new members to participate in state panels. 	<ul style="list-style-type: none"> • The NCCOE is revising its Climate Change and Sustainability Guidelines with full engagement from DCCEE.
4. <i>Recognition, Promotion and Membership</i> <ul style="list-style-type: none"> – <i>Recognising excellence and contributions to the profession</i> 	<ul style="list-style-type: none"> • The ACAA Awards were presented in May 2011 and planning is underway for the 2012 Awards. The NCCE elected a new representative to the ACAA Management Committee. 	<ul style="list-style-type: none"> • Preparation for the 2011 Stark and DN Foster Awards is well in-hand. A call for nominations for the DN Foster Award was advertised in February 2011.
5. <i>Education and Qualification</i> <ul style="list-style-type: none"> – <i>Contributing to relevant tertiary curricula</i> 		<ul style="list-style-type: none"> • The Civil College Board has requested that the National Committee on Water Engineering (NCWE) and NCCOE work with the Education and Assessment Directorate with regard to the technical content of university tertiary programs.
6. <i>Internal Structure and Administration</i> <ul style="list-style-type: none"> – <i>Improved information for members</i> – <i>Good governance</i> 	<ul style="list-style-type: none"> • The NCCE has been successfully working with State Representative and Division Directors to reinvigorate local interest in State Construction Panels. 	<ul style="list-style-type: none"> • Work is continuing on updating and improving the NCCOE website.

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	NATIONAL COMMITTEE ON TRANSPORT ENGINEERING (NCTE)	NATIONAL COMMITTEE ON WATER ENGINEERING (NCWE)
1. Community Engagement		
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> - Identifying CPD needs - Conferences and publications - Eminent speakers - Keeping competencies and practice standards current 	<ul style="list-style-type: none"> • The NCTE ran three half-day seminars very successfully during the year. All seminars were extremely well attended with approximately 90 attendees at each. Feedback was very positive. • Unfortunately, the TEA Journal was not published in 2010-11; however, this situation has been addressed and the expectation is that the Journal will be published twice per annum in the future. • The 2010 Transport Medal winner will be approached to undertake an Eminent Speaker Tour in 2011-12. 	<ul style="list-style-type: none"> • The NCWE held its Practical Response to Climate Change Conference in September 2010 with over 200 delegates attending. • The IAHR Conference was held in June 2010 and was extremely successful. • The AJWR met its publication target of two editions for 2010-11. The NCWE will be undertaking a review of the editorial team in 2011-12. • The NCWE successfully contributed to CECAR 5 during 2010. • Planning is well advanced for 2011-12 conferences.
3. Leadership and Influence <ul style="list-style-type: none"> - Contributing to national policy development - Leadership for the learned society - Engagement with kindred bodies – national and international 		<ul style="list-style-type: none"> • The NCWE continues to provide high level management of the AR&R revision project with the expectations that drafts of Stages 1-3 will be released by end 2011.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> - Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> • The 2010 Transport Medal was presented at the National Roads Summit by the QLD Minister for Transport in March 2011 with very positive press received. 	<ul style="list-style-type: none"> • The Munro and Henderson Orations were delivered during the IAHR Conference in June 2011 at which time the GN Alexander Medal was also awarded. • The NCWE is working on guidelines for a new award in conjunction with the Engineering Practice Events Team.
5. Education and Qualification <ul style="list-style-type: none"> - Contributing to relevant tertiary curricula 	<ul style="list-style-type: none"> • The NCTE reviewed all papers received for the Mervyn Tagell Student Paper Prize; however, the prize was not awarded in 2010. Planning is underway for the 2011 prize. 	<ul style="list-style-type: none"> • The Civil College Board has requested that NCWE and NCCOE work with the Education and Assessment Directorate with regard to the technical content of university tertiary programs. • NCWE awarded its student scholarships at the IAHR conference in June 2011.
6. Internal Structure and Administration <ul style="list-style-type: none"> - Improved information for members - Good governance 	<ul style="list-style-type: none"> • Clive Mottram took over as Chair of the NCTE in March 2011 from Shukry Sahhar. The NCTE thank Shukry for his leadership of the Committee during his tenure as Chair. 	

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	COLLEGE OF ELECTRICAL ENGINEERS
1. Community Engagement	<ul style="list-style-type: none"> The Electrical College Board (ECB) sponsored the 2011 National Solar Model Vehicles Challenge. ECB are continuously looking for new and additional initiatives to promote.
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> Identifying CPD needs Conferences and publications Eminent speakers Keeping competencies and practice standards current 	<ul style="list-style-type: none"> Continuing to share information between Divisions/Committees and the Board on CPD events. Paper on Standards was submitted to Council in November 2010. ECB supportive of NCACI 25th anniversary celebration proposals. MRA between Engineers Australia and the Institution of Engineering and Technology (IET) was signed late last year.
3. Leadership and Influence <ul style="list-style-type: none"> Contributing to national policy development Leadership for the learned society Engagement with kindred bodies – national and international 	<ul style="list-style-type: none"> ECB participating in the reformation of the Society of Building Services Engineers (SBSE). ECB seeking to establish improved communications with the Young Engineers Australia National Committee (YEANC). ECB seeking to improve communications with Engineers Australia representatives on relevant Standards Australia Committees.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> ECB website averaging 1500 hits per month by members. The Electric Energy Society of Australia (EESA) National Conference was held in Hobart on 6-8 April 2011. The Conference coincided with the launch of the Tasmanian Chapter for EESA. Content for the Australian Journal of Electrical and Electronic Engineering (AJEEE) is currently being reviewed by the Board to include more papers on Electrical Engineering. Discussions are also taking place with ITEE to perhaps publish a 4th edition of the Journal for this financial year. MA Sargent Medal, National Professional Electrical Engineer of the Year Award, Graduate Electrical Power Engineer of the Year Award and Madsen Medal were all presented at the June 2011 Awards Dinner held in Brisbane. This dinner also celebrated NCACI's 25th Anniversary. ECB are currently sourcing a suitable candidate to undertake an Eminent Speaker Tour in early 2012. Nomination period for major awards for 2012 opened at the beginning of June and are due to close at the end of August 2011.
5. Education and Qualification <ul style="list-style-type: none"> Contributing to relevant tertiary curricula 	<ul style="list-style-type: none"> A paper from the Board on the delivery of nuclear physics and engineering education was submitted to Council.
6. Internal Structure and Administration <ul style="list-style-type: none"> Improved information for members Good governance 	<ul style="list-style-type: none"> New Chair of Board (2011-12): Mark Blundell. Several new representatives joined the Board over the past 12 months from Sydney, ACT, Newcastle and Queensland Divisions. ECB has farewelled former Executive Officer Jenna Zervos and welcomed replacement Jenni Woodward.

Membership - COLLEGE OF ELECTRICAL ENGINEERS

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr
Graduates	3,130	3,123	3,206	3,202	3,149	-1.7%
Members	5,812	5,986	6,405	6,756	7,061	4.5%
Fellows (and others)	999	981	986	988	999	1.1%
Sub-total	9,941	10,090	10,597	10,946	11,209	2.4%
Students	4,865	4,904	4,971	5,236	5,744	9.7%
Total - at 30 June	14,806	14,994	15,568	16,182	16,953	4.8%

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	NATIONAL COMMITTEE ON AUTOMATION, CONTROL AND INSTRUMENTATION (NCACI)	NATIONAL COMMITTEE ON SPACE ENGINEERING (NCSPE)
<p>1. Community Engagement</p>		<ul style="list-style-type: none"> • NCSpE works closely with VSSEC on educational activities with “youth appeal”. • NCSpE supported five teachers and six students in the APRSAF-17 Water Rocket Event and Educator Workshop. Teachers and students from 13 Asia-Pacific countries participated. Public participation was encouraged with additional water rocket launchers. Channel 10 film crews from “Totally Wild” and “Scope” taped shows featuring the event.
<p>2. Body of Knowledge and Professional Development</p> <ul style="list-style-type: none"> – Identifying CPD needs – Conferences and publications – Eminent speakers – Keeping competencies and practice standards current 	<ul style="list-style-type: none"> • Work on organising the Australian Control Conference (AUCC) 2011 is progressing well. The Conference will be held in November in Melbourne. It attracted 130+ paper submissions. • New initiative: IFAC Symposium on Intelligent Autonomous Vehicles, to be held in Brisbane in 2013. • New initiative: IEEE Symposium on Intelligent Vehicles, to be held in Brisbane in 2013. 	<ul style="list-style-type: none"> • The success of our Space Engineering Symposium as part of the Australian Space Development Conference (ASDC) validates the Committee’s belief that this offers a cost effective way to disseminate technical outcomes of space engineering activities in Australia. Support is anticipated for the biennial conference in 2012. • The \$40m Federal Government sponsored Australian Space Research Program has been operating for 18 months, so excellent papers are anticipated for the next Space Engineering Symposium. The Committee anticipates calling for abstracts in the second half of 2011. • After successfully supporting student attendance at the 10th Australian Space Science Conference (ASSC) last year, the Committee has agreed to similarly sponsor the 11th ASSC in Canberra in September.
<p>3. Leadership and Influence</p> <ul style="list-style-type: none"> – Contributing to national policy development – Leadership for the learned society – Engagement with kindred bodies – national and international 	<ul style="list-style-type: none"> • Support was provided for Prof Iven Mareels (NCACI member) to be elected to the International Federation of Automatic Control (IFAC) Technical Board Chair for the period 2011-14. • New project initiatives include: <ul style="list-style-type: none"> – The History of IFAC Activities in Australia. – The History of Control Education in Australia (Part 2). 	<ul style="list-style-type: none"> • NCSpE has excellent links with the Australian Space Policy Unit (SPU), part of DIISR. We await the release of SPU’s new draft Australian Space Policy document. Committee members are directly involved with policy drafting through Australian Space Industry Innovation Council. • NCSpE policy document remains unchanged, and may be reviewed after release of the Australian Space Policy document.
<p>4. Recognition, Promotion and Membership</p> <ul style="list-style-type: none"> – Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> • NCACI Best Paper Award for presentation at the Australian Control Conference 2011. • NCACI produced History Book (Part 1) that is available for purchase and download. • NCACI to establish its presence at LinkedIn. 	<ul style="list-style-type: none"> • The relationship between NCSpE and NASA is strong. VSSEC/NASA Partnership prize to be co-ordinated in conjunction with the NCSpe Thesis Prize.
<p>5. Education and Qualification</p> <ul style="list-style-type: none"> – Contributing to relevant tertiary curricula 	<ul style="list-style-type: none"> • The Undergraduate Thesis Prize was presented at the Electrical College Board dinner in June 2011: <ul style="list-style-type: none"> – Winner: Micycle Thesis (University of Adelaide). – High Commendations: John-Paul Gregorcowicz (University of Southern QLD), and Joel Cappelli (University of Sydney). 	<ul style="list-style-type: none"> • Part scholarships were awarded for the NCSpE inaugural Space Engineering Scholarship for the ‘Southern Hemisphere Summer Space Program’ of the International Space University to Crystal Forester (leader of the ‘White Paper’ project) and Eloise Matheson (valedictory address at closing ceremony). The Program had 43 participants from nine countries. • VSSEC/NASA Space Prize (\$5k pa); Engineers Australia Undergraduate Thesis Prize in Space Engineering to Joel Cappelli.
<p>6. Internal Structure and Administration</p> <ul style="list-style-type: none"> – Improved information for members – Good governance 	<ul style="list-style-type: none"> • New Chair: Ljubo Vlacic (from Feb 2011). • NCACI continues to provide members with a quarterly newsletter and the NCACI website has been updated. 	<ul style="list-style-type: none"> • Deputy Chair, Mirek Vesely, replaces Mark Blair (overseas) as Committee Chair. • Committee focussing on sponsorship and benefits for Committee and members.

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	COLLEGE OF ENVIRONMENTAL ENGINEERS
1. Community Engagement	
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> – Identifying CPD needs – Conferences and publications – Eminent speakers – Keeping competencies and practice standards current 	<ul style="list-style-type: none"> • The Society for Sustainability and Environmental Engineering (SSEE) and Environmental Engineers College (EEC) work as partners in providing continuing professional development to environmental engineers in some regions around Australia. • The SSEE and EEC conduct a biennial national conference; the next will be held in Brisbane in October 2011. • The College has contributed to policy development when requested. • The College is working with the DYD project to define the technical competencies and graduate outcomes required for environmental engineering programs. This is the major task that the College has been working on for the last two years. • After some time, Number 10 of the SEEK Journal series for universities was issued and well-received. • The College provided input into the review of the Stage 1 Competencies.
3. Leadership and Influence <ul style="list-style-type: none"> – Contributing to national policy development – Leadership for the learned society – Engagement with kindred bodies – national and international 	<ul style="list-style-type: none"> • The outcomes and processes used in the DYD project have been presented at a number of workshops and at the Australasian Association for Engineering Education (AAEE) Conference. • The College Chair has been mentoring the Institution of Engineers, Sri Lanka, in preparation for their Washington Accord application. • The College Chair presented a workshop at the ASEAN- Australian Engineering Conference in Kuching in July 2011 on <i>Embedding sustainability in Engineering Programs</i>.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> – Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> • An Award for Young Environmental Engineer of the Year has been created and advertised for the first time. • Further awards are being developed.
5. Education and Qualification <ul style="list-style-type: none"> – Contributing to relevant tertiary curricula 	<ul style="list-style-type: none"> • The College has been contacting its members for their input and inviting them to workshop sessions for the Australian Learning and Teaching Council (ALTC) project: <i>Define Your Discipline (DYD)</i>. Many members commented that this was the first time they had had any contact with an Engineers Australia College and appreciated the opportunity to be involved. • The outcomes of the DYD project will be used to update the guidelines for environmental engineering programs, which are used for accreditation purposes. • The Board works closely with the Accreditation Unit with nomination of members to the Unit for appointment to accreditation panels. • Assistance has been provided to a number of universities in preparation for their upcoming accreditation visits. • Assistance with NPER audits is given on a regular basis.
6. Internal Structure and Administration <ul style="list-style-type: none"> – Improved information for members – Good governance 	<ul style="list-style-type: none"> • The College now runs a session with local members twice a year coinciding with the Board meetings. • Two face-to-face board meetings are held each year. • The Board includes representatives from YEA, WIE and the technologists. • The College has been encouraging more experienced environmental engineers to nominate as members of the Board.

Membership - COLLEGE OF ENVIRONMENTAL ENGINEERS

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr
Graduates	666	682	707	653	645	-1.2%
Members	619	689	799	925	974	5.3%
Fellows (and others)	72	71	73	86	92	7.0%
Sub-total	1,357	1,442	1,579	1,664	1,711	2.8%
Students	1,167	1,200	1,232	1,329	1,407	5.9%
Total - at 30 June	2,524	2,642	2,811	2,993	3,118	4.2%

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	COLLEGE OF INFORMATION, TELECOMMUNICATIONS AND ELECTRONICS ENGINEERING
1. <i>Community Engagement</i>	
2. <i>Body of Knowledge and Professional Development</i> <ul style="list-style-type: none"> - Identifying CPD needs - Conferences and publications - Eminent speakers - Keeping competencies and practice standards current 	<ul style="list-style-type: none"> • Asia-Pacific Software Engineering Conference 2010 successfully held in Sydney with support of the Information, Telecommunications and Electronics Engineering (ITEE) College Board. • Australasian Software Engineering Conference (ASWEC) planning remains uncertain with the next conference planned for 2012. The Steering Committee is considering a strategy for ensuring ASWEC does not disappear. • RADAR2013: conference collaboration arrangements with IEEE (SA) are being negotiated to enable this four-yearly conference to return to Adelaide in 2013. • Dr Terry Stevenson, CTO Raytheon Australia, delivered Eminent Speaker Tours entitled <i>The Engineering Leadership required in the development of Complex Systems</i>. The video is awaited for the website. • The ITEE College Board is working on developing a three-year Eminent Speaker program. Plans are being developed for Prof Sanjit Mitra, a signal and image processing expert, to conduct a series early in the coming financial year. • <i>eMonitor</i> newsletter published on a bimonthly basis.
3. <i>Leadership and Influence</i> <ul style="list-style-type: none"> - Contributing to national policy development - Leadership for the learned society - Engagement with kindred bodies – national and international 	<ul style="list-style-type: none"> • With Biomedical College developed a submission to Australian Communications and Media Authority (ACMA) regarding transition arrangement in realising the “digital dividend”. • College Chair blog has been published every two months as a column in <i>eMonitor</i> with positive feedback. • College Chair has met with CSIRO ICT Centre and National Information and Communications Technology Australia (NICTA) in relation to improving linkages with the College.
4. <i>Recognition, Promotion and Membership</i> <ul style="list-style-type: none"> - Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> • The ITEE College Board awarded Mr Robert Hodges the 2010 Neville Thiele Award in Brisbane in June 2011, for his leadership in the emerging field of Intelligent Transport Systems. Nominations are being sought for the 2011 Neville Thiele Award. • The College has made substantial progress towards a second award funded by IREE Foundation funds. • MA Sargent and Madsen Medals 2010 awarded jointly with Electrical College.
5. <i>Education and Qualification</i> <ul style="list-style-type: none"> - Contributing to relevant tertiary curricula 	<ul style="list-style-type: none"> • The Board is considering the support of existing competitions as a means of increasing awareness of ITEE as a career and of disciplines for which Engineers Australia is actively providing value.
6. <i>Internal Structure and Administration</i> <ul style="list-style-type: none"> - Improved information for members - Good governance 	<ul style="list-style-type: none"> • Board Meetings were held in October 2010 in Adelaide and in May 2011 in Sydney, hosted by Cochlear Limited. • Set up Confluence area for the ITEE College Board. • Executive meetings were held in September 2010 and March 2011 (by teleconference).

Membership - COLLEGE OF INFORMATION, TELECOMMUNICATIONS AND ELECTRONICS ENGINEERING

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr
Graduates	2,033	1,992	1,853	1,799	1,702	-5.4%
Members	2,613	2,737	2,884	3,038	3,161	4.0%
Fellows (and others)	469	459	457	454	462	1.8%
Sub-total	5,115	5,188	5,194	5,291	5,325	0.6%
Students	4,576	3,806	3,297	2,948	2,912	-1.2%
Total - at 30 June	9,691	8,994	8,491	8,239	8,237	0.0%

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	NATIONAL COMMITTEE ON SOFTWARE ENGINEERING (NCSWE)
1. Community Engagement	
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> - Identifying CPD needs - Conferences and publications - Eminent speakers - Keeping competencies and practice standards current 	<ul style="list-style-type: none"> • The Software Engineering and Architecture – Joint Technical Program (SEA-JTP) Adelaide continues from strength to strength with a fine speakers program and engagement from the software engineering communities within Engineers Australia and the local chapter of the Australian Computer Society. • SEA-JTP Canberra kick-off did not occur in the envisaged March 2011 timeframe due to volunteer time constraints. Two presentations are envisaged as part of the Canberra Division Technical Program later in 2011. • The Australian Software Engineering Conference (ASWEC) is a major conference held in the week following Easter each year. However, with the 17th Asia-Pacific Software Engineering Conference (APSEC) being held in December 2010, it was considered that to hold an ASWEC conference so close to APSEC would not receive sufficient support in relation to conference papers and participation. There is no ASWEC 2011 as a consequence.
3. Leadership and Influence <ul style="list-style-type: none"> - Contributing to national policy development - Leadership for the learned society - Engagement with kindred bodies – national and international 	<ul style="list-style-type: none"> • The SEA-JTP initiative is supported by the Australian Computer Society. • The Joint Board on Software Engineering is not currently active but will be reinvigorated in the second half of 2011.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> - Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> • SEA-JTP remains the ongoing technical program vehicle promoting the software engineers have a 'home' within Engineers Australia, in addition to software engineering technical presentations as part of the ITEE divisional programs.
5. Education and Qualification <ul style="list-style-type: none"> - Contributing to relevant tertiary curricula 	<ul style="list-style-type: none"> • The SMART MINDS program remains a method of introducing university students to a conference program.
6. Internal Structure and Administration <ul style="list-style-type: none"> - Improved information for members - Good governance 	<ul style="list-style-type: none"> • Committee member Jocelyn Armarego is now the Chair of the ASWEC Steering Committee. • The Committee has been impacted by constraints on members' availability. A face-to-face meeting was not held during the 1st half of 2011.

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	COLLEGE OF MECHANICAL ENGINEERS
1. Community Engagement	
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> - Identifying CPD needs - Conferences and publications - Eminent speakers - Keeping competencies and practice standards current 	<ul style="list-style-type: none"> • Mechanical College Board (MCB) continues to share information between Divisions and the Board on CPD events. • Local Mechanical Seminars have been well attended in the Divisions. • Reactivated the publication of the Australian Journal of Mechanical Engineering; contributed articles for publication has been lacking, but now seems to be improving. • MCB are sourcing a suitable candidate to undertake an Eminent Speaker Tour in early 2012.
3. Leadership and Influence <ul style="list-style-type: none"> - Contributing to national policy development - Leadership for the learned society - Engagement with kindred bodies – national and international 	<ul style="list-style-type: none"> • On-going monitoring and support of National Committees associated with the Mechanical College. • Participation and support of the Warman Competition which is held by the National Committee on Engineering Design (NCED).
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> - Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> • Awards Sub-Committee established. • Increased nominations for awards which provide member support and recognition. • MCB website averaging 1500 hits per month. • AGM Michell Award Dinner was held in Melbourne on 29 April 2011 and was well attended by members and the Board.
5. Education and Qualification <ul style="list-style-type: none"> - Contributing to relevant tertiary curricula 	<ul style="list-style-type: none"> • Sub-Committee on Education and Accreditation has been set up within the Board, to interact and work with kindred organisations, Engineers Australia Education and Assessment Team, and also the Accreditation Panel.
6. Internal Structure and Administration <ul style="list-style-type: none"> - Improved information for members - Good governance 	<ul style="list-style-type: none"> • Increased member participation in College Activities. • New board Chair: Earl Heckman. • New Deputy Chair: Paula West (WIE representative) • The Board continues to seek involvement in the Board through WIE and YEA.

Membership - COLLEGE OF MECHANICAL ENGINEERS

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr
Graduates	4,251	4,283	4,327	4,380	4,366	-0.3%
Members	7,627	7,916	8,605	9,186	9,598	4.5%
Fellows (and others)	1,201	1,189	1,228	1,258	1,272	1.1%
Sub-total	13,079	13,388	14,160	14,824	15,236	2.8%
Students	9,177	9,861	10,408	11,321	12,110	7.0%
Total - at 30 June	22,256	23,249	24,568	26,145	27,346	4.6%

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	NATIONAL COMMITTEE ON APPLIED MECHANICS (NCAM)	NATIONAL COMMITTEE ON ENGINEERING DESIGN (NCED)
1. Community Engagement	<ul style="list-style-type: none"> • NCAM are investigating the possibility to run an essay competition on "Role of Applied Mechanics in Engineering" as an extra curricular activity for high schools. • ACAM 6 involved collaboration with AINDT, including a separate AINDT stream with the aim of encouraging networking and collaboration between the industry and academic groups. 	
2. Body of Knowledge and Professional Development <ul style="list-style-type: none"> – Identifying CPD needs – Conferences and publications – Eminent speakers – Keeping competencies and practice standards current 	<ul style="list-style-type: none"> • NCAM continuously encourages members to pursue their own CPD. • Our flagship ACAM 6 conference was held in Perth on 13-15 Dec 2010 with over 170 attendees from 14 nations including many postgraduate students from across Australia. An international speaker, John Hart-Smith, was well received and was nominated to undertake an Eminent Speaker Tour which was endorsed by the Mechanical College Board. • Planning has commenced for ACAM 7 to be held in 2012 in Adelaide. • A special issue of AJME is in progress as a direct outcome of ACAM 6. It is planned to have DOI numbers enabling improved citation coverage for the journal. 12 papers have been reviewed and selected for the issue. 	<ul style="list-style-type: none"> • NCED continue to encourage CPD of their members as well as the wider engineering-design community; e.g. campus participation in the Weir Warman Student Competition as well as the annual Forum for airing ideas amongst NCED members and campus organisers, held as part of the National Final of the Weir Warman Student Design and Build Competition.
3. Leadership and Influence <ul style="list-style-type: none"> – Contributing to national policy development – Leadership for the learned society – Engagement with kindred bodies – national and international 		<ul style="list-style-type: none"> • NCED provided the Mechanical College Board with advice on sustainability within engineering design and engineering design education. • NCED liaised with a number of industry and academic stakeholders on this topic.
4. Recognition, Promotion and Membership <ul style="list-style-type: none"> – Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> • The committee nominated three candidates for the 2011 AGM Michell Award. 	<ul style="list-style-type: none"> • NCED's website is now hosted within the Engineers Australia structure and incorporates significant new material.
5. Education and Qualification <ul style="list-style-type: none"> – Contributing to relevant tertiary curricula 	<ul style="list-style-type: none"> • A "best student paper" competition was held as part of ACAM 6. The best five student papers were awarded certificates with the top three awarded prize money. • A speaker has been sourced to present to the NCAM Committee a seminar/workshop on the topic of sustainability/asset management with relevance to Applied Mechanics. 	<ul style="list-style-type: none"> • The 2010 Weir Warman Student Design Competition held in Sydney in Sep 2010 was deemed a success. It was well attended and supported by the Mechanical College Board. The 2011 Weir Warman Student Design Competition will again be held in Sydney. • NCED continues to focus on the current standard of undergraduate mechanical-engineering design teaching in Australia, and student attitudes towards engineering design. NCED is now in discussion on reviewing course content and improving current teaching of design. • The possibility of post-graduate instruction in mechanical-engineering design is also being investigated.
6. Internal Structure and Administration <ul style="list-style-type: none"> – Improved information for members – Good governance 	<ul style="list-style-type: none"> • New Chair: Ian Howard. • The Committee held a face-to-face meeting which coincided with ACAM6 in December 2010. • Committee members are active in the Committee's initiatives and planning. 	<ul style="list-style-type: none"> • Whilst most Committee members are active in the Committee's initiatives and planning, a review of membership is on the agenda for the face-to-face meeting on 2 October. • The Committee held a face-to-face meeting to coincide with the Warman Competition in Sydney in September 2010, plus one teleconference meeting.

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	NATIONAL COMMITTEE ON NANOENGINEERING (NCNE)
<p>1. Community Engagement</p>	<ul style="list-style-type: none"> • NCNE published its inaugural edition of <i>NanoWire</i> in December 2010 followed by a second issue in May 2011. NCNE aims to publish <i>NanoWire</i> every four months as an electronic newsletter available via its website. • NCNE has also published an article in the <i>Engineers Australia</i> magazine, December 2010, with the title: <i>NanoEngineering in Australia – outlook and challenges</i>. • NCNE developed a presentation brochure and a sponsorship prospectus during 2010-11, which has been widely distributed in an effort to introduce our activities and attract sponsorship for NCNE's programs as highlighted in their Action Plan. • There has been a steady increase in visitors to the Nano website throughout 2010-11 as our publications and events sections are regularly updated.
<p>2. Body of Knowledge and Professional Development</p> <ul style="list-style-type: none"> – Identifying CPD needs – Conferences and publications – Eminent speakers – Keeping competencies and practice standards current 	<ul style="list-style-type: none"> • During 2010-11, <i>NanoWire</i> was published twice – December 2010 and May 2011. The next edition is due in September 2011. • A number of seminars were undertaken throughout the year with co-hosting by other organisations as a consequence of our budget limitations. • NCNE has developed the foundations for its development including active international associations with the American Society of Mechanical Engineers – Nanotechnology Institute with continuous podcast and webinars. Other associations are with Nanotechnology groups in China and Singapore, with new associations being explored elsewhere. • NCNE has signed a Cooperation Agreement with the Australian Nanotechnology Alliance.
<p>3. Leadership and Influence</p> <ul style="list-style-type: none"> – Contributing to national policy development – Leadership for the learned society – Engagement with kindred bodies – national and international 	<ul style="list-style-type: none"> • NCNE in FY 2010-11 could not deliver the planned implementation of its seminar series and face-to-face meetings due to Engineers Australia (EA) limited funding. • On NCNE members' cost we have attended a number of policy workshops organised by Federal Government Agencies. • NCNE has been listed as a Professional Organisation and Consulting Group in the 2011 Australian Nanotechnology Capabilities Report. • NCNE has participated in the Federal Government's Department of Industry, Science and Research Expert Forum: <i>Uptake of Enabling Technologies Foresight Workshop: Building Products</i>.
<p>4. Recognition, Promotion and Membership</p> <ul style="list-style-type: none"> – Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> • NCNE has identified the need to create "Technological Teams" as an increasing number of scientists are performing engineering work. • NCNE has created a <i>NanoLeaders</i> program.
<p>5. Education and Qualification</p> <ul style="list-style-type: none"> – Contributing to relevant tertiary curricula 	<ul style="list-style-type: none"> • NCNE has provided a number of CPD hours through our seminars and publications. • NCNE has identified that Nanotechnology courses are being developed mostly by Science Faculties. • Engineering Faculties are engaging in nanotechnology research and nanoscience is being integrated into undergraduate teaching in some fields. • Further investigation is required to consider the need for accredited nanoengineering courses that consider the professional, ethical, and social aspects of applying nanotechnologies.
<p>6. Internal Structure and Administration</p> <ul style="list-style-type: none"> – Improved information for members – Good governance 	<ul style="list-style-type: none"> • In the November 2010 face-to-face meeting, the Deputy Chair resigned due to his workload but is still a corresponding member. • During 2010-11 NCNE has had three EA Committee Administrators, making difficult the development of our Committee. • All committee members have been active and involved in the development of NCNE. • A second face-to-face meeting per year would have improved the effectiveness of the Committee in its formative stages to explore the professional aspects of applying nanotechnologies.

COLLEGES, PANELS AND COMMITTEES

STRATEGIC DOMAINS	COLLEGE OF STRUCTURAL ENGINEERS
1. <i>Community Engagement</i>	
2. <i>Body of Knowledge and Professional Development</i> <ul style="list-style-type: none"> – Identifying CPD needs – Conferences and publications – Eminent speakers – Keeping competencies and practice standards current 	<ul style="list-style-type: none"> • Prof Paul Grundy undertook an Eminent Speaker Tour during 2010-11. Prof Grundy spoke on “disaster risk reduction and the engineer” which was extremely well received by all who attended. • ASEC 2010 was held in conjunction with CECAR 5 which was well attended and received with lessons learnt being taken into account in planning for ASEC 2012. • Planning for ASEC 2012 is well advanced with continuing oversight by the Structural College Board. Initial discussions are being held with IPENZ with regard to holding ASEC 2014 in New Zealand. • Rob Heywood, QLD Representative to the Board, undertook a number of speaking tours throughout the year for which the Board received positive feedback. • Five editions of AJSE were published during 2010-11 and the Editorial Panel has been reviewed and additional editors included. • The Board is working with National Office to investigate all avenues of communication to enable it to communicate more effectively with Structural College members whilst ensuring privacy concerns are addressed.
3. <i>Leadership and Influence</i> <ul style="list-style-type: none"> – Contributing to national policy development – Leadership for the learned society – Engagement with kindred bodies – national and international 	<ul style="list-style-type: none"> • Structural College and IABSE are investigating holding a joint conference in 2016. • Structural College and Civil College Chairs are working together to put a proposal to Congress in November 2011 on the National Committee on Structural Safety and Confidential Reporting on Structural Safety initiatives.
4. <i>Recognition, Promotion and Membership</i> <ul style="list-style-type: none"> – Recognising excellence and contributions to the profession 	<ul style="list-style-type: none"> • The R W Chapman Medal and the John Connell Gold Medal will be presented to the winners at a joint awards night with the Civil College in Sydney on 27 October 2011.
5. <i>Education and Qualification</i> <ul style="list-style-type: none"> – Contributing to relevant tertiary curricula 	
6. <i>Internal Structure and Administration</i> <ul style="list-style-type: none"> – Improved information for members – Good governance 	<ul style="list-style-type: none"> • The Structural College Board has undertaken a review of functions within the Board and has assigned Board members to specific task groups, including: <ul style="list-style-type: none"> – Communication – National Committee on Structural Safety – ASEC – Website – Article writing – CPD (national/regional seminars) – Standards Australia Codes – Finance/sponsorship

Membership - COLLEGE OF STRUCTURAL ENGINEERS

Grade	2006-07	2007-08	2008-09	2009-10	2010-11	% incr
Graduates	296	433	651	868	1,053	21.3%
Members	1,847	2,068	2,440	2,865	3,270	14.1%
Fellows (and others)	301	306	327	350	372	6.3%
Sub-total	2,444	2,807	3,418	4,083	4,695	15.0%
Students	742	909	1,064	1,301	1,507	15.8%
Total - at 30 June	3,186	3,716	4,482	5,384	6,202	15.2%

FROM OUR GROUPS - SPECIAL INTEREST GROUPS

CENTRE FOR ENGINEERING LEADERSHIP AND MANAGEMENT

Building on the successes of 2010

2010 was the Year of Engineering Leadership and the success of the year was the result of both staff and volunteer efforts.

Aside from the Leadership Conference in May 2010, there were a number of events and workshops throughout the year which were very successful and gave attendees the opportunity to either improve their executive potential, expand their circle of influence and/or further contribute to engineering excellence in Australia. The lasting legacy of the year will be achieved through communication and collaboration and the CELM Board is in the early stages of planning its future program to build on a very successful 2010.

During the year Ms Rebecca Russell, Mr David Gray and Mr Laurie Sparke resigned from the Board. The Board and I thank them for their positive contribution to CELM.

I am very pleased to advise that the CELM Board welcomed three new members in November 2010: Ms Gunilla Burrowes, Dr David Cruickshanks-Boyd and Mr Roland Slee.

We have been working throughout the year to organise our Leadership Conference for 2012 in conjunction with Young Engineers Australia. The CELM Board continues to maintain management oversight of the organisation of the Conference and I am very pleased to say that the Conference Organising Committee is doing an excellent job with all tasks proceeding as planned.

CELM Division Committees have again worked tirelessly to organise and promote events targeted at our emerging and existing leaders. Their enthusiasm and energy is inspiring and I encourage all members within Engineers Australia to connect with their local CELM Divisions and support their exceptional work.

We have continued to publish articles on leadership within the Engineers Australia magazine and these will continue during 2011-12.

The CELM Board is positively reviewing our strategy and will be focussing on six areas throughout 2011-12:

- Eng Exec
- Leadership of CELM
- Leadership by CELM
- Communication Plan
- Board Structure – CELM
- Governance

CELM will continue to assist and support Engineering Education Australia (EEA) in promoting their leadership courses and will work closely with EEA to ensure that these courses are targeted at those in leadership roles.

Dr Bronwyn Evans

Chair

ENGINEERING HERITAGE AUSTRALIA

Focus on better communications

The major achievements of the year, only completed by excellent cooperation between National Board volunteer members and dedicated staff in Engineering Practice, revolved around our long term aim of improving communications with those both inside and outside the core group of engineering heritage enthusiasts in the National Board and the Division Heritage Groups.

The most extensive project was the collection of an almost complete set of nomination documents for the approximately 150 sites now recognised under the Heritage Recognition Program. After a year of careful searching we assembled documents for all but five sites. The remainder of the sites will either turn up in somebody's bottom drawer or we will re-create suitable documents from scratch. The documents are now available on the EHA web page.

During the year, work commenced on a book project to celebrate the 100th anniversary of Engineers Australia in 2019. This is a big project with ambitious objectives which will require much research and writing.

The third major communications project of the year was more internally focused in the form of a regular monthly email News Bulletin to members of the National Board and its Corresponding Members.

Our national Heritage Recognition Program had a busy year with eight new sites recognised and two additional ceremonies for existing sites. The eight new sites were in six Divisions with only Queensland recognising multiple sites. These were the Burdekin Bridge south of Townsville, Bundaberg Waterworks and McKay's Minimum Energy Loss Culvert at Redcliffe, north of Brisbane. The Canberra Division recognised the Antenna DSS-46 at Tidbinbilla; WA Division recognised the Fremantle Fortress - Rottnest Island WW2 Coastal Defence Facilities; Tasmania recognised the Boyer Newsprint Mill; Sydney recognised the Green Cape Lightstation on the far south coast of NSW and Northern Division recognised the steam tug Young Australian on the remote Roper River.

The Sir John Monash Medal was awarded at the Engineers Australia AGM to Michael Clarke, long-time supporter of Engineering Heritage Australia.

Five Awards of Merit were made during the year, recognising the continuing contributions made by many individuals to the achievements of Engineering Heritage Australia.

I would like to take this opportunity of thanking everybody who has worked so hard to achieve the objectives of EHA during this year.

Owen Peake

Chair

SPECIAL INTEREST GROUPS

YOUNG ENGINEERS AUSTRALIA NATIONAL COMMITTEE

2010-11 was incredibly busy, productive and successful for the Young Engineers Australia National Committee.

Building Stronger Relationships

At a national level, YEA forged better links within Engineers Australia through power breakfasts and lunches held in Sydney, Hobart and Perth with members of local committees, Congress and Council. In Divisions, YEA continued to foster links with other organisations by holding joint events with Engineers Without Borders, Women In Engineering, the Centre for Engineering Leadership and Management and various young professionals network groups. We are also improving our links internationally through the appointment of a YEA International Representative.

YEANC funded projects and events in Victoria (annual ball), Tasmania (launch of the *Year of Humanitarian Engineering*), Newcastle (digital resources for regional members), Sydney (university public speaking competition) and Townsville (Gen X networking event). We strived to improve communications with our YEA divisions by holding regular YEA Chairs teleconferences in addition to our quarterly YEANC meetings.

YEA encouraged participation in the 2010 Royal Charter and By-laws ballot, and the national committee supported the YES vote.

Being Chartered

'Being Chartered' was a major focus for YEA this year, led by Sofia Sapojnikova (Sydney Division) and Christina West (Canberra Division). YEA initiated an online survey on the perception and value of Chartered within the engineering community, with over 5,000 responses. Workshops were held in most Divisions to obtain detailed feedback on being a Chartered engineer, including the application process. Our preliminary findings and recommendations were presented to the Special Committee of Council on Being Chartered. A final paper on our research will be presented to Council in 2011. YEA promoted the benefits of being Chartered through seminars and workshops on writing Career Episode Reports in each Division.

Other Highlights

YEANC was instrumental in achieving change with the Young Professional Engineer of the Year Award, with the adoption of more robust criteria and a more transparent application process. This will help to raise the prestige of the award and ensure that engineering excellence is recognised.

Planning is well underway for the 2012 Engineering Leadership Conference, to be co-hosted by YEA and CELM in Adelaide on 30 May – 2 June 2012. The conference is sure to be a highlight of the 2012 engineering calendar.

YEANC welcomes the 2012 Chair of YEA, Sofia Sapojnikova of Sydney.

Dr Jessica Andrewartha
Chair

WOMEN IN ENGINEERING NATIONAL COMMITTEE

...to attract, support and celebrate the achievements of female engineers.

Female engineer membership continued to grow strongly and comprised 10.9% of total Engineers Australia members at June 2011. Excluding students, female membership grew 11% during 2010-11, compared to 2.6% overall.

Highlights of the year

Women in Engineering initiated a Fellow program to encourage more eligible female engineers to apply for Fellow grade membership. This resulted in a 33% increase in female Fellows from 76 to 101.

During 2010-11, successful preparations were made for the Women in Engineering National Committee (WIENC) to host the 15th International Conference for Women Engineers and Scientists (ICWES15) in Adelaide in July 2011. The conference attracted 525 attendees from 30 countries, it had over 17 invited speakers, 125 papers presented, and over 100 posters exhibited. The conference was well sponsored by industry and government organisations, and generated over \$70,000 profit. Scholarships were awarded to five outstanding female engineers to attend ICWES15.

Women in Engineering committees in Divisions were active again, delivering over 80 events across Australia attended by approximately 7,000 members. Joint events were held with Young Engineers and CELM. To celebrate 2011 the *Year of Humanitarian Engineering*, each division committee held at least one event to celebrate the theme.

Responding to the needs for Fit for Purpose PPE (Personal Protective Equipment) for female engineers, WIENC commissioned the Challenger TAFE in Western Australia to design a series of four PPE clothing. The designs were launched at the ICWES15 conference dinner and were well received.

Continuing the success of the Girl Talk CD, WIENC published the Go Girl brochure. The brochure was a fun and visual way to introduce engineering to young girls in primary and middle school. It will be distributed as part of the Women in Engineering Girl Talk tool kit to schools.

Media coverage for Women in Engineering peaked around the ICWES15 conference. Topics around Women in Engineering were featured on ABC news; ABC afternoon talk shows; South Australia *The Advertiser*; South Australia *Sunday Mail*; Perth *Sunday Times* and *The Weekend Australian*. Regular features continued in the Engineers Australia magazine through the year.

Communications with all Divisions and College Boards were maintained with a summary of the annual report on activities distributed to all Congress delegates in November 2010.

The committee held two face to face meetings and two teleconferences during the year.

Michelle Shi-Verdaasdonk
Chair

SPECIAL INTEREST GROUPS

ENGINEERING TECHNOLOGISTS OF AUSTRALIA

The National Committee of Engineering Technologists of Australia (NCETA) represents a small group within Engineers Australia. Many new technologist members are overseas qualified.

All technologist members are encouraged to attend and participate actively in Divisional CPD events relating to their disciplines. CPD is not arranged by NCETA as members practice in a range of disciplines across many Colleges. Indeed, Engineering Technologist members are represented on the Civil, Structural, Mechanical, Electrical and ITEE College Boards and members are represented on most Division Committees. An Engineering Technologist member was President of Northern Division in 2010 and 2011.

Several member profiles are available on line, and NCETA members and other Engineering Technologists work with Divisions on local issues.

Technologist members are encouraged to become Chartered, and I am a member of the 2010-2011 Special Committee of Council which is undertaking a review on being Chartered. NCETA will continue to support initiatives for more consistent regulation of engineering nationally, particularly to include provision for Engineering Technologists.

Engineering Technologist members are encouraged to enter the People in Engineering Awards in each State and Territory Engineering Excellence Awards.

The positive outcome of the member ballot on the Royal Charter and By-laws was a milestone for Engineering Technologists.

Members are made aware of articulation opportunities and encouraged to pursue articulation. Christine Haydon, a member of NCETA, is on the Articulation Committee and ensures NCETA is informed of relevant developments.

Two face to face meetings of the National Committee are held each year, with additional teleconferences as required. As Chair, I attended the 2011 Engineering Practice Advisory Committee meeting, chaired by the National Deputy President.

Lack of activity in Sydney – and a Sydney representative on the Committee – is a concern. There is a need to form a group there. Similarly WIE and YEA reps would strengthen NCETA in its efforts to represent the interest of Engineering Technologist members into the future.

Will Neethling

Chair

NATIONAL COMMITTEE OF ENGINEERING ASSOCIATES

I have the privilege of taking over as Chair of the Committee from WGCDR Ross Magno. I would like to thank Ross for his leadership in the four years that he served as Chair. This continuity has ensured that the Committee is in a very sound position to represent the interests of Associates within Engineers Australia, on the National Engineers Registration Board (NERB), and on policy matters.

The national membership numbers for Associates have decreased from 5,594 in June 2010 to 5,477 in June 2011 following an increase from 5,428 in June 2009. Whilst the decrease in membership is disappointing, I note that there has been an increase of 6% in members with Chartered status. The Committee urges Associates to get involved with Engineers Australia activities such as visits to TAFE colleges, representation on committees, attending careers and engineering expos, attending Engineering Week functions and activities, and promoting Engineers Australia through EngQuest. These activities are very effective in recruiting new members and promoting the Engineering Team.

A highlight for the Committee was the pleasing outcome of the By-laws ballot. The Committee would like to acknowledge the contribution of Peter Godfrey, Julie Hammer, Doug Hargreaves, Merv Lindsay, Peter Taylor and Rupert Grayston towards unifying Engineers Australia members into one team.

The Committee is maintaining a strong relationship with Defence, one of Engineers Australia's largest Professional Development Program partners, through WGCDR Ross Magno and Captain Keith Chambers. This relationship includes professional development opportunities such as site visits, annual contributions to Chartered status workshops, and hosting Honeywell Engineering Summer School (HESS) visits. My own relationship with the mining industry is also very beneficial for Engineers Australia. This relationship began with Rio Tinto (then CRA) in Broken Hill in 1978 and continues to the present day through my employment with the Snowden Group.

The National Committee for Engineering Associates has a membership of state representatives and corresponding members, who are all very proud of the Engineering Team, and are very passionate about representing the interests and welfare of Associates. The Committee appreciates the efforts of Engineers Australia volunteers and staff in supporting the Engineering Team.

Rob Williamson

Chair

SPECIAL INTEREST GROUPS

REGIONAL SPECIAL INTEREST GROUP NATIONAL COMMITTEE

Council approved the formation of a Special Interest Group for Regional Engineering Team Members in May 2010 and the Regional National Committee began operating on 1 July 2010.

The Regional SIG approved goals are:

- Plan and deliver a program for 2012 *Year of the Regional Engineering Team*
- Coordinate a national approach to development of national strategies to support and enhance service delivery by Divisions to regional members
- Facilitate communication of regional issues from Divisions to the national level and vice versa.

The Committee is working with members of the Engineering Practice & CPD Directorate on the program for 2012 *Year of the Regional Engineering Team*.

Also, the Committee is holding monthly teleconferences to work on and deliver outcomes for the Year Of as well as achieving our goals of bringing regional views to the national level on policy, organisation strategic planning and the communication of everyday items such as service delivery, marketing initiatives and CPD delivery.

As Chairman of the National Committee, I would like to thank all those members who joined during 2010 and for their continuing commitment to delivering the *Year of the Regional Engineering Team* and to developing strategies to support members living and working in regional and rural Australia.

Greg Mashiah

Chair

OVERSEAS CHAPTERS AND INTEREST GROUPS

Engineers Australia supports four overseas chapters in Singapore, Hong Kong and Malaysia, and in the United Kingdom. Each Chapter is given financial support through payment of a subvention towards a range of member events, including committee meetings, technical presentations, site visits and eminent speakers.

A highlight of the year was the visit to the three Asian Chapters by the National President and Acting Chief Executive in March 2011. Members were invited to meet the National President to discuss:

- The new Strategic Plan, and priorities for Engineers Australia.
- Ways in which Engineers Australia could provide more support to its overseas members.
- The many exciting projects our members were involved in overseas.
- *Year of Humanitarian Engineering.*

The visit to the three Asian locations also gave the National President the opportunity to visit the local engineering institutions and Australian University offshore campuses.

The Hong Kong Chapter provided an unexpected and heart-warming outcome from the National President's visit with the initiation of a donation appeal for Queensland disaster victims. More than \$A2,300 was collected and has since been presented to the Queensland Premier's Disaster Relief Appeal.

Following on from a very successful, inaugural Asean Australian Engineering Congress (AAEC) in 2004, the Malaysian Chapter decided to work towards a second AAEC. It is a major feat to organize a conference such as this and it could not have been achieved without the commitment of the members and the support of the sponsors. The Congress was finally launched shortly after the end of the financial year and attracted many prominent speakers who were leaders in their field, as well as about 500 delegates. The theme of the Congress was *Engineering for sustainability* which tied in aptly with the *Year of Humanitarian Engineering* which is attracting a lot of interest among our kindred organizations in the South East Asian region.

Well done to our Chapters for their marvellous efforts during the year.

Engineers Australia currently has three Interest Groups – in Thailand, the US and the Middle East. Unfortunately interest in the Thai and US groups is waning due to the lack of a local champion. The Middle East Group has gone from strength to strength, with bi-monthly programs for members in the region strictly on a voluntary basis. This Group of committed member volunteers deserves our warmest congratulations and appreciation.

Contributed by

Brent Jackson

Director International and National Policy, Engineers Australia

FROM OUR GROUPS - TECHNICAL SOCIETIES

In accordance with Section 17 of the Guidelines and Regulations for Technical Societies of Engineers Australia, the following societies (and other affiliated groups) have provided reports on their activities for the year 2010-11.

Technical Societies

Page

86	Australasian Association for Engineering Education (AaeE) Australasian Fluids and Thermal Engineering Society (AFTES)
87	Australasian Particle Technology Society (APTS) Australasian Tunnelling Society (ATS)
88	Australian Composite Structures Society (ACSS) Australian Cost Engineering Society (ACES)
89	Australian Earthquake Engineering Society (AEES) Australian Geomechanics Society (AGS)
90	Australian Society for Bulk Solids Handling (ASBSH) Australian Society for Defence Engineering (ASDE)
91	Electric Energy Society of Australia (EESA) Electromagnetic Compatibility Society of Australia (EMCSA)
92	Industrial Engineering Society (IES) Materials Australia
93	Mine Subsidence Technological Society (MSTS) Mining Electrical and Mining Mechanical Engineering Society (MEMMES)
94	Railway Technical Society of Australasia (RTSA) Red R Australia Limited
95	Risk Engineering Society (RES) Society for Engineering in Agriculture (SEAg)
96	Society for Sustainability and Environmental Engineering (SSEE) Society of Building Services Engineering (SBSE)
97	Society of Fire Safety (SFS) Systems Engineering Society of Australia (SESA)

Related Groups

98	Institute of Public Works Engineering Australia (IPWEA) Joint Board for Aerospace Engineering with RAeS Australian Division Joint Board, Royal Institute of Naval Architects and Engineers Australia
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Non-Reporting Societies

No contribution to this Annual Report has been received from the Asset Management Council.

TECHNICAL SOCIETIES



AUSTRALASIAN ASSOCIATION FOR ENGINEERING EDUCATION (AAEE)

www.aeee.com.au

AAEE represents a vibrant community passionate about engineering education, primarily in Australia and New Zealand. My term as President in 2011 follows on from Euan Lindsay's Presidency in 2010.

A major initiative in 2011 has been the appointment of *AAEE Champions* within each of the member institutions who will provide key dissemination points for AAEE and assist in raising the awareness of AAEE, engineering education research and benefits for the community.

AAEE has continued to increase the engagement of its membership in 2010-11 and to deliver relevant professional development programs including a number of workshops: the *Evaluating Learning and Teaching Strategies* workshops, the *AAEE Postgraduate Winter School of 2011*; and the *EA/AAEE National Forum on Accreditation and Curriculum Design* series of workshops (a special ACED sponsored project).

The 21st Annual AAEE Conference was held in December 2010 at the University of Technology, Sydney and was chaired by Anne Gardner, with 243 delegates from over 18 countries. The conference was held in conjunction with the 2010 'Fall' CDIO Collaborators' Meeting, bringing together a broad spectrum of international experts in engineering education. We acknowledge and thank Anne and her team for hosting a very successful conference.

AAEE finds itself in a unique and highly valued position through:

- being a technical society of Engineers Australia (EA),
- being a Technical Interest Group of the Institution of Professional Engineers New Zealand (IPENZ)
- having formal representation on the Australian Council of Engineering Deans (ACED), and
- intending to create greater ties with the New Zealand Council of Engineering Deans (NZCED).

Through these relationships, AAEE and its members benefit from financial support, input to decision making and collaboration in special projects. Indeed, AAEE is often envied by many of our colleagues around the world.

In 2012, we will welcome Les Dawes as incoming President. We can expect to see continued strength in working with ACED and EA, increasing engagement with NZCED and IPENZ, continued activity with the membership, and in seeking greater engagement internationally.

In closing, I acknowledge and applaud current and past AAEE Executive team members who have contributed to engineering education with such passion and energy.

Duncan Campbell

President



AUSTRALASIAN FLUIDS AND THERMAL ENGINEERING SOCIETY (AFTES)

www.aftes.org.au

As with the 2009-10 period, AFTES activities for 2010-11 were affected by the lack of interest in taking up office bearer responsibilities.

A primary strategy was to get the AFTES website up and running which faced some difficulties due to access issues to the previous web domain. A part-time web developer has been engaged with the progress towards a "new-look" template. It is envisaged that the AFTES website will be hosted by an Engineers Australia server. It is hoped to have the AFTES site available online very soon with information on:

- forthcoming conferences
- professional development programmes, and
- significant research/professional achievements of AFTES members.

The AFTES council also intends to formulate a practical action plan and future direction for AFTES.

Prof Tilak Chandratilleke

Chairman

TECHNICAL SOCIETIES



AUSTRALASIAN PARTICLE TECHNOLOGY SOCIETY (APTS)

www.engineersaustralia.org.au/apts

The members of the Australasian Particle Technology Society (APTS) made a significant contribution to the annual CHEMECA conference, which was held in Adelaide in September 2010.

The particle technology streams at CHEMECA were organised by APTS and were well attended. APTS presented the annual Graeme Jameson Award at the conference to the “best paper by a postgraduate student in Australia or New Zealand”. Ms Hilda Wiogo from the University of New South Wales won the 2010 award for her paper on *Stabilisation Study of Carboxyl Coated Iron Oxide Nanoparticles in Biological Media*. Ms Wiogo was presented with a framed certificate and \$1000 in prize money at the conference dinner. Three papers were highly commended: Stephen Tanurdjaja, Ataollah Nosrati and Minghao Wang. The highly commended certificates were presented at the AGM, also held at the CHEMECA conference. Supporting future particle technology leaders is one of the key aims of APTS.

Members were kept informed of relevant particle technology conferences and events around the world via the newsletter, which was sent out every 3-4 months during this period.

We look forward to another year of activities in 2011-2012.

Dr Karen Hapgood

President



AUSTRALASIAN TUNNELLING SOCIETY (ATS)

www.ats.org.au

The Australasian Tunnelling Society (ATS) held its 14th National Conference on the *Development of Underground Space* in Auckland over 8-9 March 2011. The conference was very successful with over 300 delegates attending; a wide range of topics and disciplines were covered. Aside from speakers and delegates from Australia and New Zealand, there were speakers and attendees from North and South America, the European Union and Asia. Feedback on the conference has been overwhelmingly positive and the ATS Executive Committee is organising the next conference for 2012.

Our State Groups continue to provide regular and varied technical sessions which are very well attended. It is extremely pleasing to the Society that senior representatives from major companies are happy to share their expertise and time with our members.

The Executive Committee has been focussing, and will continue to focus, on corporate governance. It is working with Engineering Practice to develop revised Regulations and Guidelines for the ATS which will govern the Society going forward.

The ATS bid to host the 2014 World Tunnelling Congress was delivered in Helsinki in May of this year and whilst it was extremely well received by voting members, our bid was not successful on this occasion. It should be mentioned that the support provided by Business Events Sydney to the ATS in putting forward our bid was very professional and impressive. We will be looking closely at whether we put forward a bid to host a future Congress.

The David Sugden Award was presented to the winner, Ritesh Mhajan, at the Australian night in Helsinki in May. Since then, the ATS was sad to learn that David passed away in July 2011 after a long and prestigious career.

The Society publishes a Journal twice a year and also offers tunnelling related publications.

Full details of the Society's activities and related articles can be found on our ATS website.

Simon Knight

Chairman

TECHNICAL SOCIETIES



AUSTRALIAN COMPOSITE STRUCTURES SOCIETY (ACSS)

www.acss.org.au

The Australian Composite Structures Society (ACSS) has now been in existence for almost 19 years and continues to provide for its members a high quality lecture program, together with support for relevant special events in the field.

Over the reporting period, the Annual General Meeting and seven lecture meetings were held in Melbourne. Each of the lectures was of a high standard with the presenters from Australia (1), Germany (1), United Kingdom (3) and USA (2).

Positions in the Society are held as follows:

- Dr Viktor E Verijenko concluded his term as President of the Society, and became Vice-President (Immediate Past President).
- Prof Murray L Scott moved from his position of Vice-President (President Elect) to become President – for the second time, and also maintained his long-standing role as ACSS Director.
- The position of ACSS Administrator continued to be filled by Mrs Denise M Bennett, a staff member at the Cooperative Research Centre for Advanced Composite Structures, which she has held since January 2007.
- Dr Rikard B Heslehurst as Canberra Chapter Chairman continued leading activities in the Australian Capital Territory, which involves occasional joint lectures with the Australian Defence Force Academy's Advanced Composite Research Unit.
- Dr Adrian Orifici continued as Melbourne Chapter Chairman and web administrator.
- Dr Andrew G Beehag continued in the role of Sydney Chapter Chairman.

After a reduction in the number of members over the past year or so, membership of the Society has now stabilised with a total of 41 financial members, including all categories of membership, i.e. Engineers Australia members (39) and direct members (2). However, the financial position remains sound, as reported by Ms Sook Phin Leong, the Society's Honorary Auditor.

This year the Society made contributions to support the very successful Joint Annual Conference and Exhibition of Composites Australia – the National Industry Association, and the Cooperative Research Centre for Advanced Composite Structures - which was held in Sanctuary Cove, Queensland on 17-18 March 2011.

Murray Scott continues to serve on the Executive Council of the International Committee on Composite Materials.

Prof Murray L Scott

Director



AUSTRALIAN COST ENGINEERING SOCIETY (ACES)

www.costengineer.org.au

The Australian Cost Engineering Society (ACES) have active chapters in Melbourne, Sydney, Brisbane and Perth.

Members span a wide range of industries, including oil and gas, minerals and mining, and building and include project managers, cost engineers, planners, estimators and contract administrators who apply cost engineering skills to support effective cost and schedule control on major engineering and construction projects.

The following are the past year's highlights, achievements, activities and planned events:

- ACES membership has shown a significant increase in membership over the past year with total membership numbers now around 530.
- Meetings and technical sessions have been held across all ACES chapters during the year.
- All ACES chapters have hosted Cost Engineering Certification exams on behalf of the Association for the Advancement of Cost Engineering International (AACCI) during the year.
- The ACES National website has been running since 2005 and continues to provide a good communication tool for our diverse and often remote membership.
- The ACES "mail order" Technical CD library continues to operate from both the Melbourne and Perth chapters.

ACES continues its ongoing commitment to education and professional development of engineers in the methodology and application of project controls. In collaboration with Swinburne University of Technology in Melbourne, ACES continues to deliver a cost engineering course with 120 undergraduates, 55 graduates, and 20 distance learning students participating in the past year.

ACES also commenced its online eLearning courses in October 2010 with over 100 students enrolling in the Cost Estimating and Project Controls course since its launch.

ACES is committed to providing forums for spreading cost engineering knowledge and techniques between members. All meetings and events are focused on technical issues of interest to members and to deliver professional development through these meetings.

Keith R Webb

National Chairman

TECHNICAL SOCIETIES



AUSTRALIAN EARTHQUAKE ENGINEERING SOCIETY (AEES)

www.aees.org.au

Recent New Zealand and Japan Earthquakes

AEES contacted New Zealand Society of Earthquake Engineering (NZSEE) immediately after the Christchurch earthquake to express our condolences and offer our assistance. Some members joined the USAR team and two reconnaissance teams also went to Christchurch. The structure damage reconnaissance team helped the Christchurch City Council in assessing and labeling buildings; three reconnaissance reports have been published online on the AEES webpage. While some members have already given public talks regarding the earthquake, a special session on the Christchurch earthquake is arranged for the AEES Annual Technical Conference in November 2011.

AEES also contacted colleagues in Japan after the Japan earthquake and tsunami to express condolences and offer our help.

Research Scholarships

The Society funds scholarships for students enrolled at Australian universities undertaking research into earthquake engineering and/or seismology. Last year Siva Sivanerupam from Swinburne University of Technology received a scholarship for his research proposal entitled *In-plane Seismic Performance of Point Fixed Glass Facade Systems*.

Continuing Professional Development

The last Society's Annual Technical Conference and AGM were held in Perth, WA on 26-28 November 2010 with proceedings published on a CD-ROM and distributed at the conference. The 2011 Conference will be held at Barossa Valley, SA on 18-20 November.

Outreach

A small delegation attended the Pacific Conference on Earthquake Engineering in April 2011 in Auckland where a member was invited to give a talk in the NZSEE AGM on our intention to bid for and host the 16th World Conference on Earthquake Engineering (WCEE). Members of NZSEE overwhelmingly supported this idea.

With support from AusAID and NZ Aid, AEES and NZSEE were planning to conduct jointly an Earthquake Resilience Workshop on 22-24 August 2011 at Wellington, NZ, with delegates from South Pacific Countries.

Webpage

AEES maintains an active webpage for its members and general public. It provides updated information on recent earthquakes, technical papers, a photo gallery, and publishes earthquake reconnaissance reports and members' commentaries.

Hong Hao

President



AUSTRALIAN GEOMECHANICS SOCIETY (AGS)

www.australiangeomechanics.org

The Australian Geomechanics Society (AGS) has an active membership with local chapters in the major centres and some regional cities. We reach our members through the Australian Geomechanics Journal, local technical lectures, specialty conferences, symposia, seminars and workshops. AGS is jointly sponsored by Engineers Australia and the Australasian Institute of Mining and Metallurgy, and has a growing member base of about 1,400. AGS has representation in associated international societies, ISSMGE, IAEG and ISRM.

The AGS is preparing for two major conferences: the ANZ Geomechanics conference will be held in Melbourne in July 2012; the 7th International Congress on Environmental Geotechnics will be held in Melbourne in 2014.

The AGS awarded the biennial Geotechnical Practitioner of the Year award for 2010 to Andrew Leventhal, recognizing his leadership in developing the industry accepted national framework for Landslide Risk Management. The 2010 Trollope Medal has been awarded to Dr Shazzad Hossain for his work on spud-can penetration for offshore jack-up rigs.

The AGS journal *Australian Geomechanics* is published quarterly with themed papers in 2010 and 2011 on Tasmanian, South Australian and Western Australian Geomechanics and Landslide Risk Management. The 2010 *Australian Geomechanics Award* for the best paper published in the journal that year has been awarded to Sri Srithar for his paper *Settlement Characteristics of Coode Island Silt* (v. 45-1, pp 55-64).

Speakers on the AGS Distinguished Speakers programme in 2010 included Paul Marinos and Professor Chris Clayton. Professor Tom O'Rourke will deliver his 2009 Rankine lecture at venues in Australia in early October 2011.

National Landslide Risk Management Seminars (*Risky Roadshows*) from April to June 2011 were attended by 479 participants at workshops in Melbourne, Hobart, Adelaide, Sydney, Wollongong, Perth, Brisbane, Newcastle and Townsville. The roadshows are part of a project to increase awareness of landslide risk and publicise the revised Landslide Risk Management Guidelines and *Geoguides*.

AGS has commenced an 18-month preliminary study to consider the content for an updated national standard for Site Investigations. The preliminary study will aim to identify the components of the standard that need to be updated.

Graham Scholey

National Chair

TECHNICAL SOCIETIES



AUSTRALIAN SOCIETY FOR BULK SOLIDS HANDLING (ASBSH)

www.engineersaustralia.org.au/asbsh

The 5th Annual Australian Bulk Handling Awards was held in Brisbane on 11 November 2010. These awards were organised by Informa Australia, and the Society worked with Informa to develop suitable prize categories and also to evaluate and judge the various nominations from industry.

Two awards were given by ASBSH:

- Mr Otto Chan, a Principal Engineer of Hatch, received the *ASBSH Award* in 2010 for his outstanding contributions to bulk solids handling.
- Dr Tobias Krull, Operations Manager of TUNRA Bulk Solids, received the *A W Roberts Award* (the second award from the Society) for his significant contributions to bulk solids handling technology.

Representatives of Informa Australia also attend the Society meetings that are held each year to discuss and plan relevant events for the future. This association and developing relationship have been very productive, with new activities providing greater options and opportunities for Society members, for example: the inaugural Pit to Port Conference to be run in conjunction with the BULKEX Exhibition on 25-27 October 2011, Sydney Olympic Park.

Mr David Beckley, the ASBSH Technical Convener for WA, stood down during 2010. He played a very active role in WA and the Society would like to thank Mr Beckley for all his time and effort in organising the numerous seminars and courses for our members in WA. Mr Eric Lau from AMEC Minproc took over as WA Technical Convener in October 2010 and has already organised many successful seminars. It is great to see the Society so active in the West.

In the East, the Society also hosted the Engineers Australia Eminent Speaker Series: *Using Continuous Mining Equipment to develop an Open Cut Mine Operation* by Mr David Morrison, SKM, held in Melbourne, Brisbane, Mt Isa and Sydney during June 2011. The ASBSH Chair attended and introduced the Sydney event, which was very well attended by Society members.

The Society continues its association with the journal *Australian Bulk Handling Review*.

Peter Wypych
Chair



AUSTRALIAN SOCIETY FOR DEFENCE ENGINEERING (ASDE)

www.engineersaustralia.org.au/asde

The National Committee continues to meet quarterly, usually by teleconference, to address a wide range of issues necessary to move the Society forward. Proceedings are reported in a newsletter to members following every Committee Meeting.

Most pleasing is the further development, during the reporting period, of our relationship with Defence Materiel Organisation (DMO) – in November 2010 we joined with DMO and Engineers Australia to conduct a most successful conference in Canberra. In August 2011, we and the Sydney Division of Engineers Australia will support the Defence and Industry Engineering Team (DIET) day conference organised in Sydney by DMO with the theme *Engineering Assurance*.

We are also working with Engineers Australia and the Submarine Institute of Australia (SIA) to support one day of the inaugural SIA Conference on Submarine Science, Technology and Engineering to be held in Adelaide in November 2011.

In addition to these activities, ASDE has also made submissions to the Strategic Review of Naval Engineering and the Rizzo Review and continues its interest in the pursuit of the technical integrity of all defence engineering.

The Victorian, ACT and NSW Chapters conduct regular programs of presentations, some in conjunction with other groups of Engineers Australia which support the Engineers Australia Continuing Professional Development (CPD) program. The support of Defence and the defence industry by the provision of excellent speakers is greatly appreciated – many of the presentations are now being video-streamed and added to the Engineers Australia website. Thanks to the efforts of its Committee, the Queensland Chapter activities have increased. ASDE has also developed a much wider relationship with the Australian Industry Defence Network (AIDN) which adds to our influence.

The interaction with Engineers Australia concerning the award of Chartered Status continues and the administrative support received from Engineers Australia is outstanding. The ASDE is in a reasonably strong financial position but the challenge to increase the number of younger members and to encourage their involvement in the ASDE committees continues.

Doug Roser
National Chair

TECHNICAL SOCIETIES



ELECTRIC ENERGY SOCIETY OF AUSTRALIA (EESA)

www.eesa.asn.au

Annual Conference – EECON 2011 National

A successful 87th annual conference was held in Hobart 7-8 April 2011 at the Wrest Point Casio. This was a most significant event for the EESA with very strong Industry Support. The Gold Sponsor was ABB with Silver sponsorship from Aurora Energy, Hydro Tasmania and Wilson Transformers. This was the first EESA Conference to be held in Tasmania.

Decisions were taken at EESA National Committee meeting to move to a three EECON conferences per year format – EECON NSW, EECON Queensland and EECON Victoria.

Colin Frost was awarded Honorary Life Membership of the EESA at the Conference dinner.

Future Major Events

EECON NSW 2011 Sydney 8-9 September 2011.

Chapters

The real strength of the EESA lies in the active committees at work in the state chapters. Each state chapter has put together an impressive technical program which has worked for the benefit of all our members.

Chapter Chairs are:

- Colin Frost (Vic/Tas)
- Lawrie Cleary (Qld)
- Bob Smith (NSW)
- Martyn Pearce (SA)

A new EESA Chapter is being formed in Tasmania.

Our challenge is to further improve the delivery of professional development to our members by taking advantage of the best speakers and presenters from all our state chapters to present in other states.

Finances

Membership of the Society continues to grow and reached 878 at 30 June 2011.

Very successful annual conferences and other seminars and workshops for which fees are charged, has seen the Society maintain a healthy financial position, both nationally and at the state chapter level.

Dr Robert Barr

President



ELECTROMAGNETIC COMPATIBILITY SOCIETY OF AUSTRALIA (EMCSA)

www.emcsa.org.au

The EMC Society held our eighth annual EMC Symposium in 2010. This was the first year it was hosted in St Kilda, Melbourne. It is the only national event devoted to EMC in Australia and will run again in November 2011 in Perth.

The Society's self-funded newsletter presented articles and papers on EMC from local and overseas authors and attracted industry support through institutional listings. Requests for republication continue to be received, establishing the newsletter as a substantial source of new papers in the EMC field.

Technical presentations by local and international speakers enabled the EMC community to share experiences and provided Continuing Professional Development (CPD) opportunities for Institution members.

At the AGM the EMCSA Council for 2011 was declared. Members are: Mark Mifsud (Chairman), Kingsley McRae (Treasurer), Gordana Felic, John Hyne, Malcolm Mulcare, Paul Kay, Paul Payne, Franz Schlagenhauser, Andrew Walters.

The EMC Society hosted a technical presentation on 20 July 2011 on *Advanced Numerical Techniques for EMC-related Bioelectromagnetic and Medical Applications* by Prof Mauro Feliziani from the University of L'Aquila.

Another presentation is planned for 14 September 2011 on *EMC Design And Verification Of Horn HF Radar Systems* by Graeme Madigan.

The EMCSA continued close cooperation with the Victorian Chapter of the Institute of Electrical and Electronics Engineers (IEEE) EMC Society. Commonality of interests and membership between the two bodies have resulted in mutual benefit.

Our treasurer reports that the Society is in a sound financial position. This has allowed us to embark confidently on activities such as the EMC Symposium 2011 to be held in Perth.

The Society has an active National Committee with members drawn from Melbourne, Adelaide and Perth, and is continually seeking to foster the formation of Chapters in other centres. Serving the needs of a geographically dispersed membership remains one of our challenges.

Mark Mifsud

Chair

TECHNICAL SOCIETIES



INDUSTRIAL ENGINEERING SOCIETY (IES)

(Institute of Industrial Engineers)

www.iie.com.au

In recent years it has become more critical than ever for the Industrial Engineering profession to position itself in a way that modern businesses can recognise the value-add it offers. It is not that the need for the skills has diminished, but the exact opposite! There are numerous specialist disciplines and practitioners in the traditional Industrial Engineering domain that many businesses forget that Industrial Engineers provide a "one-stop-shop" for operations management, resource utilisation and productivity improvement.

During 2010-11 the Institute of Industrial Engineers (IIE) has continued a program to update its approach for this new generation. This has included the introduction of three new Directors on the IIE Board to provide improved representation of Young Engineers and Graduate Engineers (Sam Ghaith and Scott Fairburn) and of the Manufacturing sector (Bill Ferme). IIE has also established a Social Media presence on a number of popular platforms to leverage these as a mechanism for improving communication across the industry.

We held a successful Annual General Meeting in September 2010 which provided a number of our newer members with the opportunity to meet the Federal Council and discuss current issues. At the meeting I was honoured to have been nominated for the grade of Fellow for services to the Institute, and was pleased to accept this nomination.

Through the year I had the opportunity, as Federal President, to visit a number of national and international Divisions, and listen to our members. This assists in defining our future programs. IIE also continued to produce a number of quality editions of New Engineer magazine to cover both Industrial and Manufacturing Engineering in Australia.

The challenge over the next twelve months in Australia will be to position Australian industry for the introduction of the new Carbon Pricing policy. Industrial Engineers can assist industry to prepare for this new regime through improved efficiency in operations and the utilisation of resources.

I look forward to continuing to work with members on these and other challenges facing Australian society, and look forward to continuing to grow the role of IIE into the future.

Daniel Kulawiec

Federal President



Materials
Australia

MATERIALS AUSTRALIA

www.materialsaustralia.com.au

Thanks to the hard work of our volunteers and staff at Materials Australia, our impact in the materials engineering sector, through the Materials Australia journal and our branch and national events, continues to grow. The highlight in 2010 was the *Seventh Pacific Rim International Conference on Advanced Materials and Processing* (PRICM-7) held in Cairns at the beginning of August. This meeting provided a great forum for over 1,000 materials engineers and scientists from all round the Pacific Rim.

On the other side of the country, our WA members organised a very successful regional event in Geraldton with an emphasis on materials innovation in mining, minerals processing, ports and materials handling.

With the need to address long-term structural problems in our finances, National Council held a strategy planning day at the end of November 2010. The enthusiasm was energising and there was a clear commitment from our members and branches to the overarching goals of Materials Australia.

The discussion of priorities and opportunities can be grouped into three broad themes:

- Networking, the key reason why materials professionals join Materials Australia.
- Professional development, a responsibility individuals share with our employers.
- Recognition, both externally and internally directed.

We talked about ways of improving engagement with our members and there was some hard thinking on the structure of Materials Australia. Leadership must come from the members, with the National Office in a supporting role, facilitating the initiatives of members and branches.

The key short to medium term priorities for Materials Australia were identified as:

- financial sustainability
- membership growth
- active branches
- member-driven events

The coming year will be critical in establishing the sustainability and viability of Materials Australia while improving our operations and effectiveness.

We thank all our staff for their dedication and commitment. In particular, we would like to acknowledge the contribution of Nick Koerbin, who brought such enthusiasm to the position of CEO but has now broadened his work among associations.

I am confident that Materials Australia has a bright future and I look forward to supporting the new members of the National Executive in the year ahead.

George Collins

National President

TECHNICAL SOCIETIES



MINE SUBSIDENCE TECHNOLOGICAL SOCIETY (MSTS)

www.mstsociety.org

In May 2011, the Mine Subsidence Technological Society (MSTS) held its 8th Triennial Conference. The 23 technical papers that were presented here reflected significant achievement in managing and monitoring mine subsidence beneath infrastructure along with research and development.

The foreword of the inaugural 1988 Conference on Buildings and Structures Subject to Mine Subsidence indicated that an inquiry into proposed longwall mining under urban areas “appeared to have experienced, at least to some degree, the lack of published information based on Australian data on the structural behaviours of buildings and structures”. With a vision to address this concern and to promote the interchange of technical information amongst persons interested in mine subsidence, the Mine Subsidence Technological Society Conferences quickly developed into the leading conference of their kind in Australia; over 150 technical papers relating to mine subsidence have been presented.

A strong database of mine subsidence information now exists. Many who were involved in early conferences have continued to shape the knowledge base for mine subsidence and deal with the challenges that arise. In the past, infrastructure such as roads, pipelines, transmission towers, railway lines, optic fibre telecommunication cables, residential structures and natural features have been undermined. Certainly there have, and will continue to be, challenges. It is on these that research is focussed. As leaders in the field of mine subsidence, Society members are mindful that technical expertise is also supplemented by general information on managing mine subsidence that can be readily utilised in the general community.

The Annual General Meeting was held on 16 May 2011 following the conference; Greg Cole-Clark was elected Chair, Don Kay as Secretary and Ken Mills as Treasurer. The Executive passed on their thanks to outgoing office bearers for their valued contribution, and in particular Peter Reid and Arthur Waddington, who had held the position as Secretary and Treasurer respectively for many years. The Society is in a sound financial position and although conference fees were priced with a view to breaking even, the Society made a small profit. Twelve new members have joined in the last year.

The MSTS website provides member services and contacts. Enquiries are received both nationally and internationally from persons interested in coal mine subsidence. Previous conference papers are available to members through the MSTS website.

Greg Cole-Clark

Chair



MINING ELECTRICAL AND MINING MECHANICAL ENGINEERING SOCIETY (MEMMES)

www.engineersaustralia.org.au/memmes

The Mining Electrical and Mining Mechanical Engineering Society (MEMMES) has had another busy year with

our monthly meetings well attended. Papers were well received and interesting over a wide range of topics.

MEMMES Hunter Valley Electrical Chapter

The formation of the MEMMES Hunter Valley Electrical Chapter was completed in November 2010 and is functioning well, with meetings being held on a bi-monthly schedule. We are currently looking at the formation of chapters in Queensland and Western Australia.

Western Area of NSW

There were two one-day seminars held in Cobar for the metaliferous mining engineers. This was well attended and another seminar is being organised for October 2011, again in Cobar. The seminars include technical papers from suppliers, and engineers have also been giving presentations. Around the table discussions on problems, incidents and plant upgrades were presented.

August and November 2010

The Department of Primary Industries held their annual Mechanical and Electrical Safety Seminars at Homebush. Once again, MEMMES were asked to chair a session at the mechanical seminar and promote the Society.

April 2011

A one-day seminar for Electrical, Mechanical Engineers and suppliers to the industry was held in the Hunter Valley with 120 attendees.

Apprentice visit to TestSafe

MEMMES sponsored 4th Year Apprentices and Trainee Engineers from the mines and support industries to a day at the Londonderry Workcover TestSafe test station. This is the sixth year we have carried out this operation. We had two visits from the Hunter Valley, and one each from Wollongong and Lithgow, bringing our attendance to approximately 400 for the number of visits over the past six years.

Convention May 2012

A dual convention is being arranged for May 2012, in conjunction with the Risk Engineering Society. Look for further details on our website.

Peter Whipp

President

TECHNICAL SOCIETIES



ENGINEERS
AUSTRALIA
RTSA

RAILWAY TECHNICAL SOCIETY OF AUSTRALASIA (RTSA)

www.rtsa.com.au

2010-11 has been a successful year for the Railway Technical Society of Australasia (RTSA), with a number of initiatives aimed at expanding our profile across the rail industries of Australia and New Zealand.

Following a market study in 2010 to determine the demographic and attitudes of our audience, the RTSA is currently developing a re-branding plan, planning a website upgrade and investigating opportunities for expanding our membership services.

The RTSA's *CORE2010* Biennial Conference on Railway Engineering was held in Wellington in September 2010, the first time that *CORE* has been held outside Australia. The conference was very successful, with over 600 delegates, sponsors and exhibitors attending. Fifty youth scholarships, providing free attendance at *CORE 2010*, were awarded to students and recent graduates from across Australia and New Zealand. Planning is well advanced for the next *CORE* conference which is to be held in Brisbane in September 2012 with the theme of "Global Perspectives".

The *Meet the Railway People Expo* initiative in 2009 was continued into 2010-11 with successful expos held in Sydney, Brisbane and Melbourne. The expo enabled students interested in a rail career to meet practicing rail professionals.

The RTSA annual awards programme, recognising individual and rail project excellence, has continued to attract high quality nominations. A record 13 nominations were received for the 2011 Railway Student Engineering Thesis Award, following increased publicity in universities.

The RTSA and the Engineers Australia National Committee on Transport Engineering jointly ran a half-day seminar on High Speed Rail in Melbourne in March 2011. This was followed by a successful High Speed Rail Study Tour on Railway Engineering (STORE) to Japan, Korea and Taiwan in May.

An initiative in 2010-11 has been an increased focus on technical submissions on rail issues. Three submissions were made to Australian Government agency discussion papers (*Role of Government in Rail Freight Investment, Our Cities, and the National Land Freight Strategy*).

RTSA's financial position remains healthy, with a significant part of our revenues flowing from the *CORE* Conferences. Member numbers have continued to grow steadily with total membership now over 1400.

Simon Wood

Executive Chairman



RED R AUSTRALIA LTD

www.redr.org.au

Early in 2010 RedR Australia forecast serious escalation in humanitarian needs. "We must strive to get as many of the Standby Register people mobilised as we possibly can," the prediction read.

During 2010-11, the scale of need rose dramatically, worse than most public forecasts. Unprecedented flooding affecting 20 million people in Pakistan dominated the humanitarian agenda, then conflict-related catastrophes across Africa and the Middle East. There were many other regions of great distress on lower levels of public awareness. The United Nations agencies which lead the action after natural and manmade crises needed more people to operate within the relief programmes. With the international response fully extended, RedR participated strongly when suitable people were available.

Backed by a three-year Partnership Agreement with the Australian Government's AusAID, RedR Australia developed an Operational Plan to lift our work-rate and outputs.

In the 12 months under review, our people contributed a total of 289 field months within 71 assignments. 34% of deployees were on their first mission. Adding to the collective pool of experienced people is very pleasing. Assignments were undertaken in 20 countries, the same figure as the previous year. 52% of people deployed were women, a remarkable statistic in an organisation created by engineers and with engineering assignments still prominent. Roles filled included construction, water and sanitation, site planning, logistics, communications, public health, information management, field coordination, humanitarian affairs, and coordination.

Nobody goes anywhere in the name of RedR Australia without thorough preparation. The Training Service schedule of training demonstrated further growth during the year, both in basic training courses and in more specialised events responding to need. No working environment is totally secure. Professional preparation for the field is not negotiable.

RedR Australia adopted a new Constitution, more in keeping with current circumstances than the previous foundation text. We recruited new Board members and welcomed new staff to administer the growing programme. We are most grateful for the contribution of everyone who supported the mission, with particular reference to the Australian Government via AusAID.

We earnestly hope that Engineers Australia's *Year of Humanitarian Engineering* will stimulate more people to enquire about the RedR Australia system of mobilising capable engineers.

Em Prof Elizabeth Taylor

Chair

TECHNICAL SOCIETIES



RISK ENGINEERING SOCIETY (RES)

www.engineersaustralia.org.au/res

2010-11 was a very busy and important year for the Risk Engineering Society.

I would like to thank our Committee from Victoria being our Chair Geoff Hurst, Secretary Daryl Weinert, and Rob Relf, Hugh Howard, Ian Thomas, and John Weadon. I attended the committee meetings and the effort done by the committee was outstanding. Lois Wurzer is our tireless Societies Manager from Engineers Australia who never fails to give RES 120% support.

All chapters had regular presentations and we shared some presentations with other societies and organizations. For instance we shared with the Australian Institute of Energy a forum on existing and new forms of sustainable energy in Western Australia.

I would like to thank a number of retiring office bearers:

- Magalie from the Queensland chapter who is not seeking re-election at this year's AGM. Magalie has done an outstanding job.
- Thanks so much to David Cox our Chair for the Queensland chapter who despite his workload with the Brisbane City Council and the floods has been very energetic with his efforts.
- Ian Burns from our NSW chapter has worked hard for RES in Sydney and has now moved to the ACT. Also sincere thanks to his Secretary/Treasurer Ainslie for his excellent efforts.
- An outstanding effort has been done by our new Sydney chapter Chair Ruben Welshen and his vice Chair Brendyn Williams. Also a similar thank you to the outstanding support and effort by the committee. They have arranged some excellent technical presentations.
- Thanks must also go to our Canberra Chapter with Chair Brian and Secretary Subhash.
- Finally to my home state WA with sincere thanks to Keith Collins, Andrew and Steve Kamaroon.

Most importantly we are in the throes of organizing the 2012 RES National Conference in the Hunter Valley and I'm proud to say we are combining with MEMMES this time. It promises to be an outstanding conference so please consider preparing your papers.

Brian Truman

Chair



SOCIETY FOR ENGINEERING IN AGRICULTURE (SEAg)

www.engineersaustralia.org.au/seag

also <http://ncea.org.au/seag/Home.htm>

Biennial Conference

As 2011 is the year of the biennial conference, the majority of focus for the Society for Engineering in Agriculture (SEAg) and its committee this year has been on the organisation of this conference for September.

The committee decided on the Gold Coast as the location for the conference, and enrolled the help of the Engineers Australia Conference and Events Management team. There are over 80 technical papers submitted to the event from countries all over the world and one unique feature of this year's conference is the partnership with Australia's Spatially Enabled Livestock Management Group.

The conference will also include a two-day preconference tour, taking delegates to the Northern Rivers of New South Wales to inspect sugarcane production and, on the second day, heading to the vegetable basket of Southern Queensland, the Lockyer Valley. International keynote speakers attending the conference will be hosted by SEAg and will be presenting workshops during their stay.

The committee is looking forward to another exciting and eventful conference which once again is supported by CIGR (International Commission of Agricultural and Biosystems Engineering) and is recognised as one of their international events.

Journal

Another main focus of the committee this year has been the publication of the second special edition of the *Australian Journal of Multidisciplinary Engineering*; this is taking a little longer than usual but should be published before the end of the year. Eight of the best selected papers from the 2009 conference will be included.

Other Business

- SEAg members increased their linkages with CIGR by attending the world Congress held in Québec, Canada.
- SEAg members were invited to be keynote speakers at the ICAE2011 in Shandong, China.
- SEAg continues to publish a regular newsletter for its members.
- Stephan Heubeck (NIWA) Australian Biogas Group Hamilton NZ, originally from Germany, spoke to the Western Australian members on 10 March 2011 in Perth about biogas production.

A/Prof Thomas Banhazi

Chairman

TECHNICAL SOCIETIES



SOCIETY FOR SUSTAINABILITY AND ENVIRONMENTAL ENGINEERING (SSEE)

www.engineersaustralia.org.au/ssee

Political, business and societal pressures continue to underscore the need and desire for more sustainable outcomes across civil society.

This translates into tremendous opportunity, from contribution to policy development to design and delivery across many disciplines of engineering practice – the potential is enormous. We do not need more and new technologies, albeit their contribution will be valuable. Rather the opportunity exists to better integrate existing solutions and harness our imaginative, creative and innovative talents. 2011 – the *Year of Humanitarian Engineering* – has witnessed such an emergence.

Over the last 12 months we set ourselves a number of goals, many of which have been achieved:

- Develop and launch our Strategic Plan
- Complete our web portal as an active communication bridge to and for members
- Update and streamline our internal processes so that the efforts of committee and board members are more efficiently directed to positive outcomes, and hence better service the needs of members
- Foster stronger links with and collaborate with other organizations such as EIANZ and WWMA, where we now have formal arrangements in place
- Support the 2011 International SSEE Conference in Brisbane
- Launch an exciting and new look national magazine *Sustainability and Infrastructure* through the engagement of Great Southern Press, and
- Continue to provide CPD support and technical sessions in all jurisdictions.

Challenges and tasks ahead of us are:

- Provide input to Engineers Australia in updating its 2007 policy statements for Energy and Climate Change Policy Review, especially in light of recent developments such as the proposed carbon tax, with a focus on energy efficiency and clean energy
- Contribute to Engineers Australia's moves to seek endorsement from qualified engineers for significant projects, and
- Develop more formal arrangements (eg. Advisory Committee) for providing subject matter expertise to Government around Sustainable and Environmental Engineering practices and policies.

SSEE looks forward to our forthcoming international conference in Brisbane on 24-25 October. It promises to be an outstanding event with a range of excellent speakers and innovative relevant themes being addressed. We commend all members and other engineering disciplines to participate.

Deane Belfield

Chair



SOCIETY OF BUILDING SERVICES ENGINEERING (SBSE)

www.engineersaustralia.org.au/sbse

Current Activities

Throughout 2010-11, the Society of Building Services Engineering hosted various technical meetings in Western Australia and NSW, in cooperation with other Building Services groups.

New Activity

Your Society is planning to E-Publish to all members a Quarterly Newsletter, to include:

- State Society contacts and activities of Engineers Australia/SBSE and related organisations in professional Building Services.
- Professional training programmes in Building Services currently on offer.
- Updates on Codes and Regulation changes in Building Services.

Future Planning

We are looking at participating in the ARBS (Air Conditioning, Refrigeration and Building Services) Conference and Exhibition in Melbourne during 7-9 May 2012.

Intent

The intent of your current committee is to provide the best information as is available to add value to members as professionals in Building Services:

MEMBERS giving INFORMATION to MEMBERS!

Alan Obrat

National Chairman

TECHNICAL SOCIETIES



ENGINEERS
AUSTRALIA
SOCIETY OF
FIRE SAFETY

SOCIETY OF FIRE SAFETY (SFS)

www.engineersaustralia.org.au/sfs

also www.sfs.au.com

It has been another activity-packed year for the Society of Fire Safety (SFS) and we would like to thank you all for your assistance and support, in particular the State Chapters, all committees, and our behind-the-scene administration team. Membership has further grown and we have also officially re-opened our WA Chapter, thus extending chapters to nearly every State and Territory!

Following on from the 2009-10 membership survey, we have established seven portfolios. These portfolios are aligned with the SFS's key objectives and assist in keeping the focus and activity moving forward within the group. They include: Education, Communication, Marketing, Research, Regional activities, Conferences and Finance.

In March 2011, we held our biannual International Conference in Sydney, entitled "Raise the Bar", which was again well attended and our speakers presented interesting thought provoking sessions.

Our Chapters have continued to run information sessions and seminars within their respective States to encourage information sharing and professional development amongst our members. Examples of some of the topics covered include: Design Fires and NPER processes. The SFS's Position Paper was also publicly launched entitled *Role of Registered Practitioners in Fire Safety Engineering*.

We have further strengthened our ties with the SFPE, various State regulatory bodies, and also educational sectors in order to promote collaboration between these groups, to enhance the status and importance of the fire safety engineering profession and to promote consistency amongst the industry.

The SFS will continue to implement the forward work plan and the portfolio activities in relation to:

- Free 'Open House' tours of Fire Engineered Buildings, showcasing design features (August 2011),
- Continuing to improve the connection and communication with Engineers Australia,
- Providing industry sessions/site visits,
- Promoting the Fire Safety Engineering (FSE) profession to the wider community, universities, schools, and
- Promoting FSE in regional parts of Australia.

I look forward to the Society continuing its growth and in making a difference, as we challenge ourselves within the fire safety engineering profession and the industry issues ahead, as we "Raise the Bar".

Elissa Fazio

National President



SYSTEMS ENGINEERING SOCIETY OF AUSTRALIA (SESA)

www.sesa.org.au

In 2010-11, the Systems Engineering Society of Australia (SESA) continued its steady growth of membership, conducted its annual conference in early May, and became more involved with the International Council on Systems Engineering (INCOSE). Increased interaction with Engineers Australia Executive also occurred.

The Management Committee has been active through formal quarterly telephone-based meetings and two one-day business planning workshops. The society is well-placed due to its successful annual conferences and the development of actions and activities by the Committee that best leverage the Society's assets. A key outcome is the planned creation of a SESA prize for best student in academic programs leading to a Master of Systems Engineering qualification. Similar concepts for undergraduate and secondary college students are being considered by the Committee.

Since its inception, SESA has had an enduring relationship with the international representative organisation INCOSE. In Australia, by local agreement, the organisations work as one; there are, however, two organisations representing systems engineers in Australia. The Committee has worked with the central INCOSE Executive and struck an agreement in principle that SESA, whilst remaining a technical society of Engineers Australia, will be recognised as the Australian Chapter of INCOSE and membership of INCOSE in Australia will be via SESA.

While further work is required, the Committee's direction was ratified at the Annual General Meeting (AGM) which was held during the annual Systems Engineering and Test and Evaluation (SETE) Conference conducted in Canberra. The SETE Conference, held in conjunction with the Southern Cross Chapter of the International Test and Evaluation Association, was again successful with good numbers of delegates, exhibitors, papers and forums.

At the AGM, the majority of committee members were returned unopposed with a change of industry representative and a marketing representative volunteer stepping forward.

Committee members throughout the year have contributed significant amounts of time in otherwise busy professional and private lives, have worked well together, and with the Engineers Australia executive staff, have achieved worthwhile outcomes for society members. The committee, going forward, will continue to do so.

Paul Logan

President

FROM OUR GROUPS - OTHER RELATED GROUPS



INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALIA (IPWEA)

www.ipwea.org.au

IPWEA is the professional association for those involved in providing public works and engineering services to the community, and has an MoA with Engineers Australia to undertake the role of Technical Society for Local Government and Public Works Engineering.

Highlights 2010-11

IPWEA is playing a significant role in encouraging nationally consistent approaches in infrastructure asset management. It is the lead partner in organisation capacity building for the Australian Centre of Excellence in Local Government. Our framework publications the *International Infrastructure Management Manual* and the *Australian Infrastructure Financial Management Guidelines* supported by a series of Practice Notes (with *Asset Management for Small, Rural or Remote Communities* published in March 2011) lead national and international practice. A Study tour to the USA and the UK was undertaken including the 2011 American Public Works Association Congress held in Boston, Massachusetts.

IPWEA ranked highly in the BRW Annual Professions and Business Survey for Member Engagement and Overall Performance, being benchmarked top for members' "sense of belonging to a professional community" and "building alliances with other members".

IPWEA launched its new website in May 2011 built on an innovative professional networking platform, the first of its type in Australia.

Education initiatives

A national program for infrastructure asset management continues with over half of local governments in Australia now participating. IPWEA were engaged by the NSW and the NT governments to deliver state-wide training for elected members and staff in asset management, and more recently in infrastructure financial management. By invitation, workshops were also delivered in British Columbia and Saskatchewan, Canada in a major initiative demonstrating IPWEA's international leadership. Professional development was conducted in plant and vehicle management, asset management for buildings, and parks management forums were held.

IPWEA's Graduate Certificate in Infrastructure Asset Management delivered via distance education through the University of Tasmania was further enhanced with units in financial management. It is now available as a Post Graduate Diploma.

Operational

The IPWEA National Board meets three times each year. It has consolidated its administrative systems and is now providing central shared services to some of its State Divisions. IPWEA sits on the NPER Board.

Chris Champion

Chief Executive Officer



JOINT BOARD FOR AEROSPACE ENGINEERING – ENGINEERS AUSTRALIA AND ROYAL AERONAUTICAL SOCIETY – AUSTRALIA DIVISION (RAES)

www.raes.org.au

The Royal Aeronautical Society (Australia Division) and Engineers Australia continue to provide 2 members each to the Joint Board for Aerospace Engineering (JBAeroEng). The JBAeroEng provides elements of the College function for Aerospace Engineering, and has a set of agreements that enable the Royal Aeronautical Society to act in Australia as a Technical Society of Engineers Australia. The JBAeroEng oversees the Joint Conferences Committee which has oversight of the biannual Australian International Aerospace Congress (AIAC), which is held in conjunction with the Avalon Airshow. The AIAC 14 Congress, held in Melbourne in March 2011 was judged to be a success by those attending, and recognition is given to the Organising Committee under Mr Don Love. The JBAeroEng also arranged the visit of International Eminent Speaker Dr Mark Shuart from NASA who visited several cities around Australia to talk on Advanced Composites Technologies for Heavy Lift Launch Vehicles during March 2011.

The JBAeroEng also supported Australian representation to the International Council of the Aeronautical Sciences (ICAS) during the period, and noted that the ICAS 2012 Congress had been awarded to Australia and will be held in Brisbane in September 2012.

The JBAeroEng reviewed the Aerospace Engineering General Area of Practice (GAP) under the National Engineering Review Board in the period, and was satisfied that the description and scope of Aerospace Engineering remains relevant and appropriate. There were no new Aerospace Engineering degree accreditation activities reported in the period. Auditing of CPEng Aerospace Engineers continued in the period, including 2 of the 4 JBAeroEng Board members being audited. The JBAeroEng also progressed development of a brochure outlining the scope of Aerospace Engineering, which should be published in 2012.

Phillip Campbell

Chair, Joint Board

JOINT BOARD FOR NAVAL ARCHITECTURE – ENGINEERS AUSTRALIA AND ROYAL INSTITUTION OF NAVAL ARCHITECTS (RINA)

www.rina.org.uk/australia

The Board continues to monitor the Special Area of Practice for Naval Architecture on the National Professional Engineers Register. It also seeks to develop cooperation between RINA and EA and is currently revising the Agreement of Cooperation to take account of the restructuring of the Membership grades in RINA. This affects the streamlining of mutual recognition of qualifications for admission purposes to membership of either body where a person is already a member of the other.

Prof Michael Davis

Chair, Joint Board

GROUP CONSOLIDATED CONCISE FINANCIAL REPORT

for the year ended 30 June 2011



NATIONAL COUNCIL REPORT

The members of Council of Engineers Australia present the annual financial report of the consolidated entity for the financial year ended 30 June 2011.

Council Members

The names and particulars of the members of Council of Engineers Australia during or since the end of the financial year are:

NAME	IEAUST QUALIFICATION	PERIOD OF OFFICE		OFFICE HELD
M Lindsay	FIEAust CPEng	01-12-05	Ongoing	National President
D Hood	FIEAust CPEng	24-11-10	Ongoing	National Deputy President
D Hargreaves	FIEAust CPEng	20-11-08	Ongoing	Immediate Past National President
M Kanga	FIEAust CPEng	26-11-07	Ongoing	Councillor Responsible for Finance
B D Howard	FIEAust CPEng	13-11-02	Ongoing	National VP Communications & Marketing
D Gillott	FIEAust CPEng	24-11-10	Ongoing	National VP Engineering Practice & CPD
D A McHugh	FIEAust CPEng	25-11-09	Ongoing	National VP International & National Policy
B Strout	FIEAust CPEng	23-11-07	Ongoing	National VP Corporate Social Responsibility
A Baitch	FIEAust CPEng	25-11-09	Ongoing	National VP Education & Assessment
P J Godfrey	FIEAust CPEng	25-11-04	24-11-10	Immediate Past National President
B Tonkin	FIEAust CPEng	25-11-06	24-11-10	National VP Corporate Social Responsibility

Office Held as at 30 June 2011 or at the end of term of office.

Principal Activities

The principal activity of Engineers Australia during the financial year was to operate as a professional association to advance the science and practice of engineering.

Operating Result

The net deficit of the consolidated entity for the year was \$603,000 (2010: net deficit \$2,400,000).

Subsequent Events

There has not been any matter or circumstance that has arisen since the end of the financial year that has significantly affected, or may significantly affect, the operations of the consolidated entity, the results of those operations, or the state of affairs of the consolidated entity in future financial years.

Future Developments

Engineers Australia will continue to review the consolidated entity's activities to ensure that the objectives of Engineers Australia are maintained in the best interests of members.

Indemnification of officers

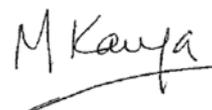
During the financial year, the company paid a premium in respect of a contract insuring the officers of the entity against a liability incurred as such an officer to the extent permitted by the Corporations Act 2001.

The entity has not otherwise, during or since the financial year, indemnified or agreed to indemnify an officer or auditor of the entity against a liability incurred as an officer or auditor.

Signed at Canberra this 14 October 2011, in accordance with a resolution of Council.



Merv Lindsay
National President



Marlene Kanga
Councillor Responsible for Finance



Deloitte Touche Tohmatsu
ABN 74 490 121 060

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Independent Auditor's Report to the members of The Institution of Engineers Australia

We have audited the accompanying concise financial report of The Institution of Engineers Australia which comprises the statement of financial position as at 30 June 2011, the statement of comprehensive income, statement of changes in equity, statement of cash flows for the year then ended, and related notes, derived from the audited financial report of The Institution of Engineers Australia for the year ended 30 June 2011 and the discussion and analysis as set out on pages 5 to 12. The concise financial report does not contain all the disclosures required by the Australian Accounting Standards and accordingly, reading the concise financial report is not a substitute for reading the audited financial report.

Councillors' Responsibility for the Concise Financial Report

The councillors are responsible for the preparation of the concise financial report in accordance with Accounting Standard AASB 1039 *Concise Financial Reports* and the *Corporations Act 2001*, and for such internal control as the councillors determine are necessary to enable the preparation of the concise financial report.

Auditor's Responsibility

Our responsibility is to express an opinion on the concise financial report based on our procedures which were conducted in accordance with Auditing Standard ASA 810 *Engagements to Report on Summary Financial Statements*. We have conducted an independent audit, in accordance with Australian Auditing Standards, of the financial report of The Institution of Engineers Australia for the year ended 30 June 2011. We expressed an unmodified audit opinion on that financial report in our report dated 14 October 2011. The Australian Auditing Standards require that we comply with relevant ethical requirements relating to audit engagements and plan and perform the audit to obtain reasonable assurance whether the financial report for the year is free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the concise financial report. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the concise financial report, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation of the concise financial report in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control.

AUDIT REPORT

Standard AASB 1039 *Concise Financial Reports* and whether the discussion and analysis complies with the requirements laid down in AASB 1039 *Concise Financial Reports*.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the concise financial report, including the discussion and analysis of The Institution of Engineers Australia for the year ended 30 June 2011 complies with Accounting Standard AASB 1039 *Concise Financial Reports*.



DELOITTE TOUCHE TOHMATSU



P A Roberts
Partner
Chartered Accountants
Canberra, 14 October 2011

COUNCILLORS' DECLARATION

The councillors declare that:

- a) In the councillors' opinion, the attached financial statements and notes thereto comply with Accounting Standard AASB 1039 'Concise Financial Reports'; and
- b) the attached financial statements and notes thereto have been derived from the full financial report of Engineers Australia.

Signed at Canberra this 14 October 2011, in accordance with a resolution of Council.



Merv Lindsay

National President



Marlene Kanga

Councillor Responsible for Finance

STATEMENT OF COMPREHENSIVE INCOME for the year ended 30 June 2011

	Consolidated		Engineers Australia	
	2011 \$'000s	2010 \$'000s	2011 \$'000s	2010 \$'000s
Income				
Revenue	36,987	33,981	28,759	26,323
Other Income	3,444	2,983	3,353	2,997
Total Income	40,431	36,964	32,112	29,320
Expenses				
Employee Benefits and Consultancy Expenses	19,238	18,171	16,933	16,193
Administration, Travel, Publication and IT Expenses	10,501	10,366	9,375	9,499
Occupancy Expenses	1,892	1,956	1,666	1,738
Finance Costs	-	12	98	85
Depreciation and Amortisation	1,188	1,099	1,106	1,009
Impairment Loss	-	10	-	-
Conference / Meeting Expenses	7,832	7,092	3,736	3,175
Other Expenses	383	658	84	160
Total Expenses	41,034	39,364	32,998	31,859
Net surplus/(deficit) from operations	(603)	(2,400)	(886)	(2,539)
Attributable to members	(603)	(2,400)	(886)	(2,539)
Other Comprehensive Income				
(Loss) arising on revaluation of properties	518	(451)	518	(451)
Total Comprehensive income for the year	(85)	(2,851)	(368)	(2,990)
Total Comprehensive income attributable to members	(85)	(2,851)	(368)	(2,990)

The above Statement of Comprehensive Income should be read in conjunction with the Notes to the financial statements included on pages 109 to 111.

It should be noted that Engineers Australia's (the parent) deficit from operations of \$886,000 (2010: deficit \$2,539,000) is consistent with the approved budget and 10 Year Financial Plan which is designed to achieve a balanced result over that period.

The increase in the parent entity's revenue reflects an increase in membership subscriptions and increase in the number of foreign qualification applications processed.

Other income also increased reflecting the increase in interest rates received on the term deposits. The weighted average effective interest rate was 5.44% in 2011 (3.23% in 2010).

The overall increase in expenditure reflects the budgeted activity within approved financial plans of the parent and its subsidiaries.

STATEMENT OF FINANCIAL POSITION for the year ended 30 June 2011

	Consolidated		Engineers Australia	
	2011 \$'000s	2010 \$'000s	2011 \$'000s	2010 \$'000s
Current Assets				
Cash and Cash Equivalents	15,271	15,496	12,891	12,621
Other Financial Assets	10,000	9,000	10,000	9,000
Trade and Other Receivables	2,353	2,127	1,406	1,282
Inventories	91	73	-	-
Prepayments and Other Assets	1,505	1,175	1,128	1,003
Total Current Assets	29,220	27,871	25,425	23,906
Non-Current Assets				
Other Financial Assets	-	-	804	804
Property, Plant, Equipment and Intangible Assets	32,222	31,352	31,982	31,065
Total Non-Current Assets	32,222	31,352	32,786	31,869
Total Assets	61,442	59,223	58,211	55,775
Current Liabilities				
Trade and Other Payables	5,840	5,166	3,908	2,861
Borrowings	-	-	2,277	2,080
Provisions	2,288	2,210	2,139	2,087
Other	19,279	17,754	19,267	17,742
Total Current Liabilities	27,407	25,130	27,591	24,770
Non-Current Liabilities				
Provisions	550	508	271	273
Total Non-Current Liabilities	550	508	271	273
Total Liabilities	27,957	25,638	27,862	25,043
Net Assets	33,485	33,585	30,349	30,732
Members' Funds				
Reserves	18,543	21,453	18,697	21,607
Retained Earnings	14,942	12,132	11,652	9,125
	33,485	33,585	30,349	30,732
Equity attributable to members	33,485	33,585	30,349	30,732
Total Members' Funds	33,485	33,585	30,349	30,732

The above Statement of Financial Position should be read in conjunction with the Notes to the financial statements included on pages 109 to 111.

Debt to Equity ratio for the consolidated entity increased from 76% to 83% in the current financial year. This was mainly due to the increase in membership subscriptions received in advance at 30 June 2011 relative to 30 June 2010.

Other Current Liabilities consist mainly of prepaid membership subscriptions for the 2011-12 financial year.

Other Financial Assets are bank Term Deposits that have a maturity date greater than 3 months from balance date.

STATEMENT OF CHANGES IN EQUITY for the year ended 30 June 2011

	Retained Earnings \$'000s	Asset Revaluation Reserve \$'000s	Major Capital Reserve \$'000s	Minor Capital Reserve \$'000s	Central Building Fund \$'000s	Technical Initiatives Fund \$'000s	Attributable to owners	Total \$'000s
Consolidated								
Balance 1 July 2009	14,790	16,941	1,996	1,054	283	1,397	36,461	36,461
Surplus attributable to members	(2,400)	-	-	-	-	-	(2,400)	(2,400)
Other comprehensive income for the year								
Loss on revaluation of property	-	(451)	-	-	-	-	(451)	(451)
Total comprehensive income for the year	(2,400)	(451)	-	-	-	-	(2,851)	(2,851)
Net transfer from retained earnings	(258)	-	-	-	-	258	-	-
Other	-	-	-	-	-	(25)	(25)	(25)
Balance 30 June 2010	12,132	16,490	1,996	1,054	283	1,630	33,585	33,585
(Deficit) attributable to members	(603)	-	-	-	-	-	(603)	(603)
Other comprehensive income for the year								
Profit on revaluation of property	-	518	-	-	-	-	518	518
Total comprehensive income for the year	(603)	518	-	-	-	-	(85)	(85)
Net transfer to retained earnings	3,413	-	(1,996)	(1,054)	(283)	(80)	-	-
Other - payments made from Technical Initiatives Fund	-	-	-	-	-	(15)	(15)	(15)
Balance 30 June 2011	14,942	17,008	-	-	-	1,535	33,485	33,485

STATEMENT OF CHANGES IN EQUITY for the year ended 30 June 2011

	Retained Earnings \$'000s	Asset Revaluation Reserve \$'000s	Major Capital Reserve \$'000s	Minor Capital Reserve \$'000s	Central Building Fund \$'000s	Technical Initiatives Fund \$'000s	Attributable to owners	Total \$'000s
Engineers Australia								
Balance 1 July 2009	11,922	17,095	1,996	1,054	283	1,397	33,747	33,747
(Deficit) attributable to members of parent entity	(2,539)	-	-	-	-	-	(2,539)	(2,539)
Other comprehensive income								
(Loss) on revaluation of property	-	(451)	-	-	-	-	(451)	(451)
Total comprehensive income	(2,539)	(451)	-	-	-	-	(2,990)	(2,990)
Net transfer from retained earnings	(258)	-	-	-	-	258	-	-
Other	-	-	-	-	-	(25)	(25)	(25)
Balance 30 June 2010	9,125	16,644	1,996	1,054	283	1,630	30,732	30,732
(Deficit)/Profit attributable to members of parent entity	(886)	-	-	-	-	-	(886)	(886)
Other comprehensive income								
Profit on revaluation of property	-	518	-	-	-	-	518	518
Total comprehensive income	(886)	518	-	-	-	-	(368)	(368)
Net transfer to retained earnings	3,413	-	(1,996)	(1,054)	(283)	(80)	-	-
Other - payments made from Technical Initiatives Fund	-	-	-	-	-	(15)	(15)	(15)
Balance 30 June 2011	11,652	17,162	-	-	-	1,535	30,349	30,349

The above Statement of Changes in Equity should be read in conjunction with the Notes to the financial statements included on pages 109 to 111.

The Major Capital Reserve, Minor Capital Reserve and Central Building Fund have not been used since the introduction of the new financial governance framework of the last five years. The balance in these dormant accounts have been transferred back to retained earnings.

STATEMENT OF CASH FLOWS for the year ended 30 June 2011

	Consolidated		Engineers Australia	
	2011 \$'000s	2010 \$'000s	2011 \$'000s	2010 \$'000s
Cash Flows from Operating Activities				
Payments to employees, suppliers and others	(39,411)	(37,071)	(30,837)	(30,635)
Receipts from members, customers and others	40,934	36,214	32,940	28,922
Cash generated from operations	1,523	(857)	2,103	(1,713)
Interest Paid	-	(12)	-	(12)
Net Cash (Used in)/Generated by Operating Activities	1,523	(869)	2,103	(1,725)
Cash Flows from Investing Activities				
Interest Received	796	547	672	473
Purchase of Investments	(1,000)	(7,000)	(1,000)	(7,000)
Purchase of Property, Plant, Equipment & Intangible Assets	(1,544)	(3,448)	(1,505)	(3,341)
Proceeds from Sale of Property, Plant and Equipment	-	10	-	-
Net Cash (Used In) by Investing Activities	(1,748)	(9,891)	(1,833)	(9,868)
Cash Flows from Financing Activities				
Repayment of Borrowings	-	-	-	(158)
Proceeds from Borrowings	-	-	-	105
Net Cash (Used in) Financing Activities	-	-	-	(53)
Net (Decrease)/Increase in Cash and Cash Equivalents	(225)	(10,760)	270	(11,646)
Cash and Cash Equivalents at Beginning of Financial Year	15,496	26,256	12,621	24,267
Cash and Cash Equivalents at End of Financial Year	15,271	15,496	12,891	12,621

The above cash flow statement should be read in conjunction with the Notes to the financial statements included on pages 109 to 111.

Cash Flows from Investing Activities include purchase of investments of \$1,000,000 (2010 \$7,000,000) which are Bank Term Deposits with a maturity date greater than 3 months from balance date.

ACCOMPANYING NOTES for the year ended 30 June 2011

1. Basis of preparation of concise financial report

The concise financial report has been prepared in accordance with Accounting Standard AASB 1039 'Concise Financial Reports'. The concise financial report, including the financial statements and specific disclosures included in the concise financial report, has been derived from the Engineers Australia group's full financial report for the financial year.

All amounts are presented in Australian dollars.

A full description of accounting policies adopted by the group may be found in the group's full financial report. These accounting policies have been consistently applied by each entity in the group and, except where there is a change in accounting policy, are consistent with those of the previous year.

2. Technical Societies

The financial results of the Technical Societies are not consolidated into the accounts of Engineers Australia.

Revenue for Technical Societies is received by Engineers Australia and distributed directly to the Technical Societies. Any undistributed Technical Society revenue at balance date is included as Sundry Creditors in the Balance Sheet.

The financial results of the Technical Societies are disclosed in the Technical Societies own audited financial statements.

3. Conference Revenue

Conference revenue is recognised on a net basis where the conference is managed by a professional conference organiser external to Engineers Australia.

4. Adoption of new and revised Accounting Standards

- a) The following new and revised Standards and Interpretations have been adopted in the current period and have affected the amounts reported in these financial statements. Details of other Standards and Interpretations adopted in these financial statements but that have had no effect on the amounts reported are set out in Note 2b.

Standards affecting presentation and disclosure

<p>Amendments to AASB 7 'Financial Instruments: Disclosure' (adopted in advance of effective date of 1 January 2011)</p>	<p>The amendments (part of AASB 2010-4 'Further Amendments to Australian Accounting Standards arising from the Annual Improvements Project') clarify the required level of disclosures about credit risk and collateral held and provide relief from disclosures previously required regarding renegotiated loans.</p>
<p>Amendments to AASB 101 'Presentation of Financial Statements' (adopted in advance of effective date of 1 January 2011)</p>	<p>The amendments (part of AASB 2010-4 'Further Amendments to Australian Accounting Standards arising from the Annual Improvements Project') clarify that an entity may choose to present the required analysis of items of other comprehensive income either in the statement of changes in equity or in the notes to the financial statements.</p>
<p>Amendments to AASB 107 'Statement of Cash Flows'</p>	<p>The amendments (part of AASB 2010-4 'Further Amendments to Australian Accounting Standards arising from the Annual Improvements Project') specify that only expenditures that result in a recognised asset in the statement of financial position can be classified as investing activities in the statement of cash flows. Consequently, cash flows in respect of development costs that do not meet the criteria in AASB 138 'Intangible Assets' for capitalisation as part of an internally generated intangible asset (and, therefore are recognised in profit and loss as incurred) have been reclassified from investing to operating activities in the statement of cash flows.</p>

ACCOMPANYING NOTES for the year ended 30 June 2011

b) Standards and Interpretations in issue not yet adopted

At the date of authorisation of financial statements, the Standards and Interpretation listed below were in issue but not yet effective.

Standard/Interpretation	Expected to be initially applied in the financial year ending
AASB 2009-12 'Amendments to Australian Accounting Standards [AASBs 5, 8, 108, 110, 112, 119, 133, 137, 139, 1023, 1031 and Interpretations 2, 4, 16, 1039 & 1052]	30 June 2012
AASB 2009-14 'Amendments to Australian Interpretation - Prepayments of a Minimum Funding Requirement'	30 June 2012
AASB 2010-4 Further Amendments to Australian Accounting Standards arising from the Annual Improvements Project [AASB 1, AASB 7, AASB 101 & AASB 134 and Interpretation 13]	30 June 2012
AASB 2010-5 Amendments to Australian Accounting Standards [AASB 1, 3, 4, 5, 101, 107, 112, 118, 119, 121, 132, 133, 134, 137, 139, 140, 1023 & 1038 and Interpretations 112, 115, 127, 132 & 1042]	30 June 2012
Interpretation 2 'Members Shares in Co-operative Entities and Similar Instruments'	30 June 2012
Interpretation 4 'Determining whether an Arrangement contains a Lease'	30 June 2012
Interpretation 14 'AASB 119 – The Limit on a Defined Benefit Asset, Minimum Funding Requirements and their Interaction'	30 June 2012

5. Dividends

The payment of dividends is not permitted under the Royal Charter of the Institution. Accordingly no dividend was paid or provided for during the financial year.

6. Segment Reporting

Engineers Australia is a member based national professional body of engineers.

Engineers Australia operates predominately in one geographical segment, namely Australia, however groups of overseas members meet in various parts of the world.

ACCOMPANYING NOTES for the year ended 30 June 2011**7. Revenue**

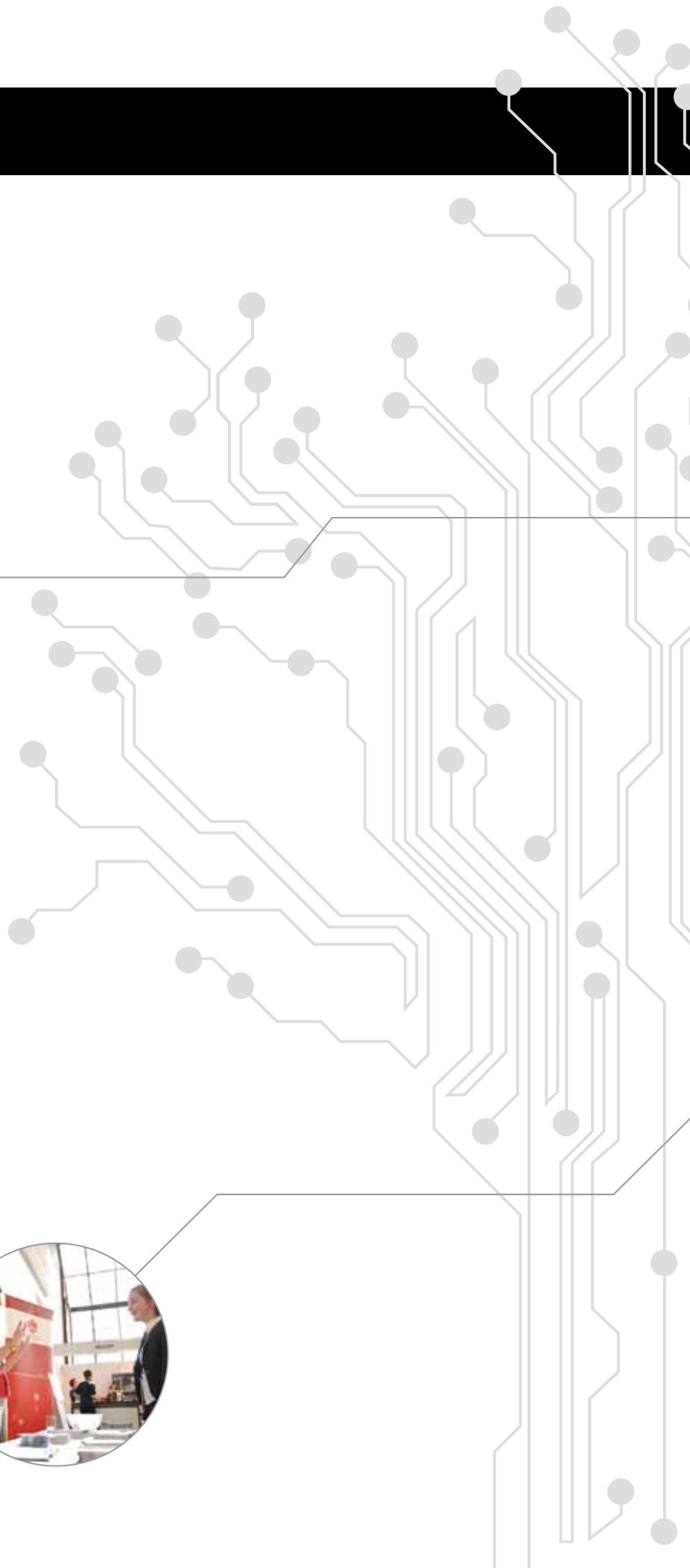
	Consolidated		Engineers Australia	
	2011 \$'000s	2010 \$'000s	2011 \$'000s	2010 \$'000s
Revenue and Income				
Revenue				
Membership Subscriptions	18,966	17,092	18,966	17,092
Fees for Services	13,648	12,181	5,333	4,435
Sponsorship	1,646	1,964	1,655	1,967
Events Income	2,176	1,918	2,179	1,923
Commission Income	530	739	530	739
Management Fee	21	87	96	167
Total Revenue	36,987	33,981	28,759	26,323
Income				
Other Income				
- Costs Recovered	1,244	1,088	1,269	1,113
- Rent Received	887	801	951	856
- Sales	201	145	202	158
- Interest Income (external)	796	547	672	473
- Other Income	316	402	259	397
Total Other Income	3,444	2,983	3,353	2,997
Total Revenue and Income	40,431	36,964	32,112	29,320

8. Building Revaluation

In accordance with Engineers Australia policy, the land and buildings were revalued by independent professional valuers to determine the fair value of the land and buildings.

Land and buildings are situated throughout Australia and each valuation is performed by a different valuer. The valuation was determined on the basis of market value for existing use on 30 June 2011.

	Consolidated		Engineers Australia	
	2011 \$'000s	2010 \$'000s	2011 \$'000s	2010 \$'000s
National Office Canberra	9,249	9,200	9,249	9,200
Sydney	2,540	2,415	2,540	2,415
Melbourne	6,100	5,800	6,100	5,800
Newcastle	930	830	930	830
Adelaide	1,530	1,500	1,530	1,500
Brisbane	3,000	2,900	3,000	2,900
Perth	5,800	5,590	5,800	5,590
	29,149	28,235	29,149	28,235



INDEX



ACRONYMS AND ABBREVIATIONS

AAEE	- Australasian Association for Engineering Education
ABEC	- Australian Biomedical Engineering Conference
ABSDO	- Accreditation Board for Standards Development Organisations
ACAA	- Australian Construction Achievement Awards
ACAM	- Australasian Congress on Applied Mechanics
ACECC	- Asian Civil Engineering Coordinating Council
ACED	- Australian Council of Engineering Deans
ACES	- Australian Cost Engineering Society
ACIF	- Australian Construction Industry Forum
ACPSEM	- Australasian College of Physical Scientists and Engineers in Medicine
ACS	- Australian Computer Society
ACRS	- Australasian College of Road Safety
ACSS	- Australian Composite Structures Society
AEES	- Australian Earthquake Engineering Society
AFEO	- ASEAN Federation of Engineering Organisations
AFMBE	- Australian Federation For Medical and Biological Engineering
AFTES	- Australasian Fluids and Thermal Engineering Society
AGS	- Australian Geomechanics Society
AINDT	- Australian Institute for Non-Destructive Testing
AJCE	- Australian Journal of Civil Engineering
AJSE	- Australian Journal of Structural Engineering
AJEEE	- Australian Journal of Electrical and Electronic Engineering
AJWR	- Australian Journal of Water Resources
ALTC	- Australian Learning and Teaching Council
ANET	- Australian National Engineering Taskforce
ANZFChE	- Australian and New Zealand Federation of Chemical Engineers
APCChE	- Asia Pacific Confederation of Chemical Engineers
APEC	- Asia-Pacific Economic Cooperation
APESMA	- Association of Professional Engineers, Scientists and Managers, Australia
APSEC	- Asia-Pacific Software Engineering Conference
APTS	- Australasian Particle Technology Society
ARATA	- Australian Rehabilitation and Assistive Technology Association
ASBSH	- Australian Society for Bulk Solids Handling
ASCE	- American Society of Civil Engineers
ASDE	- Australian Society for Defence Engineering
ASEC	- Australasian Structural Engineering Conference
ASI	- Australian Steel Institute
ASME	- American Society of Mechanical Engineers
ASWEC	- Australian Software Engineering Conference
ATS	- Australasian Tunnelling Society
ATSE	- Academy of Technological Sciences and Engineering
CECAR5	- Civil Engineering Conference in the Asian Region
CELM	- Centre for Engineering Leadership and Management
CIA	- Concrete Institute of Australia
CIBSE	- Chartered Institution of Building Services Engineers
CIGR	- Commission Internationale du Genie Rural (International Commission of Agricultural and Biosystems Engineering)
CPD	- continuing professional development
DCCEE	- Department of Climate Change and Energy Efficiency
DIIRD	- Department of Innovation, Industry and Regional Development
EEA	- Engineering Education Australia
EESA	- Electric Energy Society of Australia
EMBC	- Engineering in Medicine and Biology Conference
EMCSA	- Electromagnetic Compatibility Society of Australia
EngExec	- Engineering Executive
EPAC	- Engineering Practice Advisory Committee
EPSM-ABEC	- Engineering and Physical Sciences in Medicine and the Australian Biomedical Engineering Conference
ESTPSS	- Engineering Science and Technology Professional Standards Society
EUR-ACE	- European Accreditation of Engineering Programmes
FEIAP	- Federation of Engineering Institutions of Asia and the Pacific
GRI	- Global Reporting Initiative
IABSE	- International Association for Bridge and Structural Engineering
IAEG	- International Association for Engineering Geology and the Environment
IAHR	- International association for Hydro-Environment Engineering and Research
IChemE	- Institution of Chemical Engineers
ICOMES	- International Congress of Mechanical Engineering Societies
ICT	- Information and Communications Technology
ICWES	- International Conference for Women Engineers and Scientists
IEA	- International Engineering Alliance
IEAust	- Institution of Engineers Australia (Engineers Australia)

ACRONYMS AND ABBREVIATIONS

IEEE	- Institute of Electrical and Electronics Engineers
IEPNG	- Institution of Engineers Papua New Guinea
IES	- Industrial Engineering Society
IET	- The Institution of Engineering and Technology
IFAC	- International Federation Of Automatic Control
IFMBE	- International Federation for Medical and Biological Engineering
IMechE	- Institution of Mechanical Engineers
INCOSE	- International Council on Systems Engineering
IntPE (Aus)	- International Register of Professional Engineers (Australia)
IPENZ	- Institution of Professional Engineers New Zealand
IPWEA	- Institute of Public Works Engineering Australia
IREE	- International Review of Electrical Engineering (journal)
ISRM	- International Society for Rock Mechanics
ISTRUCTE	- Institution of Structural Engineers
ITEE	- Information, Telecommunications and Electronics Engineering
JMEA	- Australian Journal of Mechanical Engineering
JPT	- Journal of Petroleum Technology
MEMMES	- Mining Electrical and Mining Mechanical Engineering Society
MSA	- Migration Skills Assessment
MSTS	- Mine Subsidence Technological Society
NCACI	- National Committee on Automation, Control and Instrumentation
NCAM	- National Committee on Applied Mechanics
NCCE	- National Committee on Construction Engineering
NCCOE	- National Committee on Coastal and Ocean Engineering
NCED	- National Committee on Engineering Design
NCF&E	- National Committee on Fuels and Energy
NCO&G	- National Committee for Oil and Gas
NCRE	- National Committee on Rehabilitation Engineering
NCSpE	- National Committee on Space Engineering
NCSWE	- National Committee on Software Engineering
NCTE	- National Committee on Transport Engineering
NCWE	- National Committee on Water Engineering
NERB	- National Engineering Registration Board
NICTA	- National Information and Communications Technology Australia
NP-ADRC	- National Panel on Aid to Developing and Recovering Countries
NPBII	- National Panel on Biomechanics of Impact Injury
NPCE	- National Panel on Clinical Engineering
NPER	- National Professional Engineers Register
NPNE	- National Panel on Nano-engineering
NVP	- National Vice President
PIANC	- The World Association for Waterborne Transport Infrastructure
PDP	- Professional Development Program
PFP	- Parliamentary Fellows Program - SA
RAeS	- Royal Aeronautical Society
Red R	- Registered Engineers for Disaster Relief
RES	- Risk Engineering Society
RINA	- Royal Institution of Naval Architects
RMIT	- Royal Melbourne Institute of Technology
RPEQ	- Registered Professional Engineers of Queensland
RTSA	- Railway Technical Society of Australasia
SA	- Standards Australia
SBSE	- Society of Building Services Engineering
SEA-JTP	- Software Engineering and Architecture – Joint Technical Program
SEAg	- Society for Engineering in Agriculture
SESA	- Systems Engineering Society of Australia
SFPE	- Society of Fire Protection Engineers
SFS	- Society of Fire Safety
SMART	- science, maths and real technology
SMBE	- Society for Medical and Biological Engineering
SPE	- Society of Petroleum Engineers
SSÉE	- Society for Sustainability and Environmental Engineering
TEA	- Transport Engineering in Australia Journal
VSSEC	- Victorian Space Science Education Centre
WFEO	- World Federation of Engineering Organisations

GLOBAL REPORTING INITIATIVE

The Global Reporting Initiative (GRI) was established in 1997 to provide a trusted and credible common international framework for organisations of any size to use in reporting to their stakeholders on the sustainability of their activities. In addition to each organisation’s own operational performance measures, the GRI Sustainability Guidelines provide a wide range of economic, social, and environmental indicators.

The Guidelines were completely reissued in 2006 (known as ‘G3’). In March 2011, the Guidelines were updated to G3.1 to now include expanded guidance for reporting on Human Rights, Local Community Impacts, and Gender. The impact of the added guidance in G3.1 has not been fully assessed for this report.

Engineers Australia is a small-to-medium office-based organisation, so only a small number of the indicators in GRI are materially relevant to our operations. Five of the 30 G3 environmental performance indicators are considered relevant; the remaining 25 are not reported. Two of the nine economic indicators are currently considered materially relevant, and 14 of the 40 social indicators.

For space purposes, the G3 content index templates for ‘Standard Disclosures’ have not been used in full, rather they have been simplified and condensed for the purpose of reporting on the indicators considered relevant. GRI Part II Disclosures on Management Approach are not included.

Reviewing our approach to GRI-based reporting

Even though we strive to adhere to the spirit of the GRI Guidelines, producing annual reports in full compliance with the guidelines, including external assurance, has so far been considered beyond our resources to implement. In view of Council’s intention to adopt a formal Corporate Social Responsibility policy for Engineers Australia, and with the added guidance now available in G3.1, a review of our approach to GRI-based reports is desirable.

GRI Application Level

For this year’s report, we again adopt a self-declared Application Level of C:

Report Application Level	C	C+	B	B+	A	A+
G2 Profile Disclosures	Report on: 1.1 2.1 - 2.10 3.1 - 3.2, 3.10 - 3.12 4.1 - 4.4, 4.14 - 4.15	Report on all criteria listed for Level C plus: 1.2 3.3, 3.13 4.5 - 4.11, 4.16 - 4.17	Same as requirement for Level B			
G3 Management Approach Disclosures	Not Required	Report Externally Assured	Management Approach Disclosures for each Indicator Category	Report Externally Assured	Management Approach Disclosures for each Indicator Category	Report Externally Assured
G3 Performance Indicators & Sector Supplemental Performance Indicators	Report on a minimum of 10 Performance Indicators, including at least one from each of: Economic, Social and Environmental.	Report Externally Assured	Report on a minimum of 20 Performance Indicators, at least one from each of: Economic, Environmental, Human rights, Labor, Society, Product Responsibility.	Report Externally Assured	Report on each core G2 and Sector Supplemental* Indicator with due regard to the Materiality Principle by either: a) reporting on the Indicator or b) explaining the reason for its omission.	Report Externally Assured

*Sector Supplemental in final version

GRI CONTENT INDEX

PROFILE DISCLOSURES

Profile Disclosure	Reported	Comment/Explanation	
1	Strategy and Analysis		
1.1	Sustainability statement	Page 39	Corporate Social Responsibility statement
1.2	Key impacts, risks and opportunities		Predominantly by contribution to national public policy debate
2	Organisationa Profile		
	Disclosures 2.1-2.10 covered under "Our Governance" at pages 28-39		
3	Report Parameters		
3.1	Reporting period	Page 2	
3.2	Previous report	Page 2	
3.3	Reporting cycle	Page 2	
3.4	Contact point	Page 2	
3.5	Process for defining report content	Communication Objectives, page 2	Derived from corporate performance management framework
3.6	Boundary - entities represented	Complete	Covers staff and pro bono contribution of members; includes summary reports for subsidiaries
3.7	Limitations on scope or boundary	Largely complete	GRI environmental indicators fully reviewed. Economic and social indicators not yet formally assessed.
3.8	Changes affecting reporting comparability	Under 'Our Results'	Operational performance reported under 6 'Strategic Domains', marking the shift to a new Strategic Plan format
3.9	Data measurement techniques	Not covered	Commonwealth Greenhouse Challenge Plus tools used to compile environmental impact of energy usage.
3.10	Re-statements from earlier reports	Not material	
3.11	Changes from previous reporting methods	Nil	
3.12	GRI content index	Pages 117-118	
3.13	External assurance	Financial reports only	Non-financial measures are derived from internal data sources, only some of which are subject to occasional internal audit.
4	Governance, Commitments and Engagement		
4.1	Governance structure	Page 28	
4.2	National President	Honorary elected role	Non-executive
4.3	Unitary board	No	See "Structure" at page 28
4.4	Access to Congress and Council for members and staff	Partial	Members have access to Congress delegates and other avenues to raise issues or motions. Staff do not have direct formal access other than through the Chief Executive.
4.5	Remuneration linked to corporate performance	No	Councillors (voluntary office bearers) have determined performance-linked remuneration for staff is no longer relevant
4.6	Conflicts of interest	Yes	Covered in respective Codes of Practice and Conduct – terms available to members
4.7	Qualifications for Council	Elected under By-laws	Newly-elected Councillors given induction on their roles
4.8	Mission, values and principles	Strategic Plan	See also at page 35
4.9	Oversight of performance	Regular	Quarterly performance reporting to Council on key strategic goals; little corporate-level monitoring of sustainability associated with operations
4.10	Self-evaluation by Council	Annually	New approach decided – page 33 refers
4.11	Precautionary approach	Yes	Incorporated in Sustainability Charter – page 39 refers; also website
4.12	Commitment to external charters	Yes	As for 4.11; also Taipei Declaration on Sustainable Development, June 2007
4.13	Membership of other associations	Multiple	See for example report on Strategic Domain 3
4.14	Stakeholder groups engaged	At page 36	
4.15	Selecting stakeholders to engage	Strategic planning	Stakeholder analysis was part of the process for new Strategic Plan 2010-2015; also periodic national and local member surveys, and periodic planning by various constituent groups of Engineers Australia.
4.16	Approaches to stakeholder engagement	Periodic	As for 4.15 above
4.17	Key stakeholder issues	Partial	As for 4.15 above; many products and services available to members online; corporate performance reporting and Annual Reports

GRI CONTENT INDEX

GRI PERFORMANCE INDICATORS CONSIDERED RELEVANT FOR REPORTING PURPOSES

Indicator	Reported	Comment/Explanation	
Economic			
EC1	Economic value generated and distributed	Annual Report	Key financial results at pages 6-7; also audited Concise Financial Report
EC8	Spending or services provided for public benefit	Multiple services	Pro bono or in-kind services apply to most of our activities
Environmental			
EN1	Materials used by weight or volume	Partial	Some reporting on internal paper usage at SD6
EN2	Percentage of materials used that are recycled input materials	No	Not measured
EN3	Direct energy consumption by primary energy source	Yes	Report at SD6; some use of zero emission options in local offices
EN5	Energy saved due to conservation and efficiency improvements	No	Building efficiencies (eg sensor lighting, hot water) not measured
EN7	Initiatives to reduce indirect energy consumption and reductions achieved (business travel)	Partial	Carbon emissions from air travel are fully abated.
Social			
PR5	Customer satisfaction	Strategic Domain 4	Periodic national and local member surveys; plus ongoing member engagement through CPD events
PR8	Incidence of breaches of customer privacy	Strategic Domain 4	No material incidents to report
LA1	Breakdown of workforce	Strategic Domain 6	
LA2	Employee turnover	Strategic Domain 6	Quantitative measures not used
LA3	Benefit differences for full or part-time staff	Nil	Available on pro-rata basis
LA6	Workforce representation on OHS committees	Yes	
LA7	Rates of injury, lost days, absenteeism	Not reported	
LA10	Hours of training per year per employee	Not reported	
LA11	Employee development and transition programs	Yes	See "Staffing and Workplace Practices" at page 37
LA12	Regular performance and development reviews	Not reported	
LA13	Composition of workforce and governing bodies	Partial	Staff breakdown at Strategic Domain 6; governing bodies elected from membership – breakdown not reported
LA14	Comparison of male to female salary bands	No difference	
SO5	Participation in public policy development	Strategic Domains 2 and 3	Major organisational purpose on behalf of the engineering profession
SO6	Contributions of a political nature	Nil	

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